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## Myocardial O utilization and energetics of the left ventricle in hypertrophic cardiomyopathy

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## List of Publications

**Güçlü A**, Knaapen P, Harms HJ, Parbhudayal RY, Michels M, Lammertsma AA, van Rossum AC, Germans T, van der Velden J. Disease stage-dependent changes in cardiac contractile performance and oxygen utilization underlie reduced myocardial efficiency in human inherited hypertrophic cardiomyopathy. *Circ Cardiovasc Imaging* 2017; Epub ahead of print

**Güçlü A**, Happé C, Eren S, Korkmaz IH, Niessen HW, Klein P, van Slegtenhorst M, Schinkel AF, Michels M, van Rossum AC, Germans T, van der Velden J. Left ventricular outflow tract gradient is associated with reduced capillary density in hypertrophic cardiomyopathy irrespective of genotype. *Eur J Clin Invest* 2015; 45:1252-1259

**Güçlü A**, Knaapen P, Harms HJ, Vonk ABA, Stooker W, Groepenhoff H, Lammertsma AA, van Rossum AC, Germans T, van der Velden J. Myocardial efficiency is an important determinant of functional improvement after aortic valve replacement in aortic valve stenosis patients: a combined PET and CMR study. *Eur Heart J – Cardiovasc Imaging*. 2015; 16:882-889

Nijkamp LL, **Güçlü A**, Appelman Y, van der Velden J, Kuster DW. Sex-dependent pathophysiological mechanisms in hypertrophic cardiomyopathy: Implications for rhythm disorders. *Heart Rhythm*. 2015; 12:433-439

Najafi A, Schlossarek S, van Deel ED, van den Heuvel N, **Güçlü A**, Goebel M, Kuster DWD, Carrier L, van der Velden J. Sexual dimorphic response to exercise in HCM-associated MYBPC3-targeted knock-in mice. *Pflugers Arch*. 2015; 467:1303-1317

**Güçlü A**, Witjas-Paalberends ER, Germans T, Knaapen P, Harms HJ, Vermeer AMC, Christiaans I, Wilde AAM, Dos Remedios C, Lammertsma AA, van Rossum AC, Stienen GJM, van Slegtenhorst M, Schinkel AF, Michels M, Ho CY, Poggesi C, van der Velden J. Gene-specific increase in energetic cost of contraction in hypertrophic cardiomyopathy caused by thick filament mutations. *Cardiovasc Res*. 2014; 103:248-257

Wu L, Germans T, **Güçlü A**, Heymans MW, Allaart CP, van Rossum AC. Feature tracking compared with tissue tagging measurements of segmental strain by cardiovascular magnetic resonance. *J Cardiovasc Magn Reson*. 2014; 16:10

**Güçlü A**, Germans T, Witjas-Paalberends ER, Stienen GJ, Brouwer WP, Harms HJ, Marcus JT, Vonk AB, Stooker W, Yilmaz A, Klein P, Ten Berg JM, Kluijn J, Asselbergs FW, Lammertsma AA, Knaapen P, van Rossum AC, van der Velden J. ENerGetIcs in HCM: traNslation between MRI, PET and cardiac myofilament function (ENGINE study). *Neth Heart J*. 2013; 21:567-571

van Oorschot B, Hovingh SE, Rodermond H, **Güçlü A**, Losekoot N, Geldof AA, Barendsen GW, Stalpers LJ, Franken NA. Decay of  $\gamma$ -H2AX foci correlates with potentially lethal damage repair in prostate cancer cells. *Oncol Rep*. 2013; 29:2175-2180

Kwakman PH, Van den Akker JP, **Güçlü A**, Aslami H, Binnekade JM, de Boer L, Boszhard L, Paulus F, Middelhoek P, te Velde AA, Vandenbroucke-Grauls CM, Schultz MJ, Zaat SA. Medical-grade honey kills antibiotic-resistant bacteria in vitro and eradicates skin colonization. *Clin Infect Dis*. 2008; 46:1677-1682

## **Awards**

2014 ESC Moderated Poster Award

## **Extra**

Late breaking trials on novel therapies in cardiovascular diseases  
*Netherlands Heart Journal 2014; ESC special*