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Symposium I: „Vorstufen des myokardialen Pumpversagens – maladaptive Hypertrophie und Remodeling“

1 Introduction

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2 Sex-specific patterns of gene expression in early and late post-MI remodeling

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Background. Sex-specific differences have been reported in post-MI heart-failure. The cause of this differences might be found in post-MI remodeling. Therefore, we wanted to elucidate sex-specific patterns in gene-expression in post-MI remodeling.

Methods. MI was induced in male ($n=9$) and female ($n=9$) sprague-dawley rats via ligation of the LAD. After 7 respectively 42 days animals were sacrificed. Male ($n=12$) and female ($n=10$) sham-operated rats served as control. mRNA was isolated from non infarcted left ventricular free wall, pooled ($n=3$) and analyzed using Affimetrix Gene-Chip® technology. A signal log ratio 2 (SLR2) of greater or equal 1 was taken as significant change (two fold in-respectively decrease).