

**MicroRNA-25-dependent up-regulation of NADPH oxidase 4 (NOX4)  
mediates hypercholesterolemia-induced oxidative/nitrative stress and  
subsequent dysfunction in the heart**

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Running title: miR25-NOX4 in hypercholesterolemic heart

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## DISCLOSURES/CONFLICT OF INTEREST

No competing financial interest exist.

## GLOSSARY

CF = coronary flow

CO = cardiac output

DCF-DA = 2',7'-dichlorofluorescein-diacetate

DHE = dihydroethidium

DMSO = dimethyl sulfoxide

$+dP/dt_{max}$  = maximal rate of ventricular pressure rise

$-dP/dt_{max}$  = maximal rate of ventricular pressure decline

DPI = diphenyleneiodonium

ELISA = enzyme-linked immunosorbent assay

GAPDH = glyceraldehyde 3-phosphate dehydrogenase

HDL = high density lipoprotein

HW = heart weight

HW/BW = heart weight/body weight ratio

LDL = low density lipoprotein