

MicroRNA expression profile of human advanced coronary atherosclerotic plaques

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Suppl. Table S1. Target genes of the selected miRNAs and their impact on atherosclerosis

miRNA	Target Genes (inter alia)	Source	Impact on Atherosclerosis/Source (inter alia)
miR-1	KCNJ2 (K ⁺ channel subunit Kir2.1) GJA1 (Gap junction alpha-1, connexin 43/Cx43)	Yang et al., 2007, Nat Med.	Foam cell formation (Zhang et al. 2016, J Cell Mol Med.) Neutrophil migration and plaque formation (Wang, H. et al. 2013, Mol Cell Biochem.).
miR-9	PPAR- δ (peroxisome proliferator-activated receptor)- δ	Thulin et al., 2013, Int J Mol Med.	Migration of SMCs (Marx et al. 1998, Circ Res.)
miR-19b	Tumor suppressor 53 (p53)	Fan et al., 2014, RNA	Cell proliferation/apoptosis during plaque formation (Guevara et al. 1999, Nat Med.)
miR-21	Matrix metalloproteinase-9 (MMP-9)	Zhang et al., 2017, Biosci Rep.	Makrophage infiltration, collagen deposition, plaque formation (Wang et al. 2015, Arterioscler Thromb Vasc Biol.; Fan et al. 2014, Exp Mol Pathol.)
miR-22	HMGB1	Huang SC et al. 2017, Cell Physiol Biochem.)	Foam cell formation and plaque formation (Ding et al. 2012, Cell Metab., Huang WQ et al. 2017, Cell Physiol Biochem.)
miR-29b	CX3CL1 (Chemokine C-X3-C Motif Ligand)	Yang et al., 2015, Oral Oncol.	Macrophage infiltration and plaque formation (Teupser et al. 2004, Proc Natl Acad Sci U S A)
miR-92a	KLF2, KLF 4, MYCBP2	Pierre et al., 2017, Eur J Immunol. Shankman et al., 2015, Nat Med.	Inflammation and smooth muscle cell dysfunction (s. Table 3) (Raghuraman et al. 2016, Atherosclerosis.)
miR-99a	TRAF7, Transforming growth factor- β (TGF- β)	Zotti et al., 2012, J Cell Physiol.	Inflammation, chemotaxis, fibrosis, proliferation, and apoptosis (McCaffrey et al. 2010, Front Biosci.; Turcatel et al. 2012, PLoS One)

miR-143	Cyclooxygenase-2 (COX-2)		Hergenreider et al., 2012, Nat Cell Biol.	Regulation of the proinflammatory miR-143 in monocytes of AMI patients (Parahuleva et al. 2017, Sci Rep)
miR-223	Tissue factor (TF)		Li et al., 2014, Atherosclerosis	Plaque formation and thrombosis (Westrick et al. 2001, Circulation)
let-7f	Tissue inhibitor of metalloproteinases (TIMP-1)	of 1	Egea et al., 2012, Proc Natl Acad Sci U S A	MMP expression, macrophage infiltration, plaque formation (Rouis et al. 1999, Circulation)