Supplementary Materials for

Platelet-Derived PCSK9 is Associated with LDL Metabolism and Modulates Atherothrombotic Mechanisms in Coronary Artery Disease

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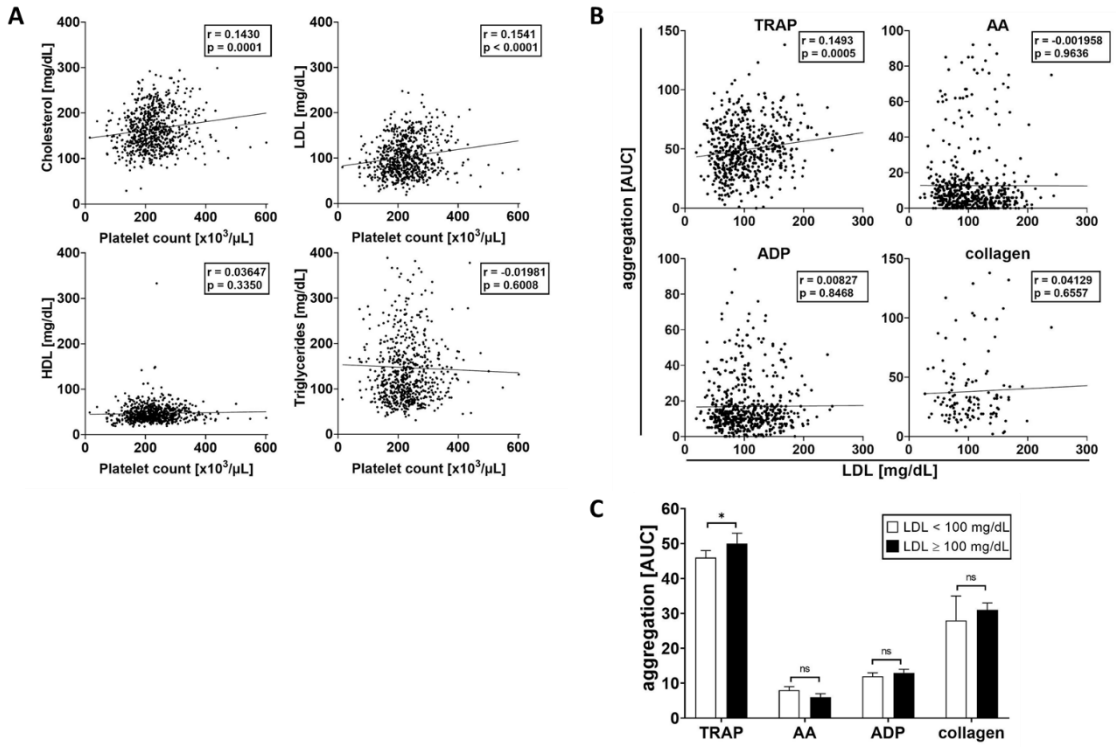
Supplemental Table S1: Baseline characteristics of the patients

	All (n=707)
Age, years, mean (±SD)	70 (±12)
Male, n (%)	500 (70.7)
Body mass index, mean (±SD)	27.5 (±5.1)
Cardiovascular risk factors, n (%)	
Arterial hypertension	630 (89.1)
Hyperlipidemia	459 (64.9)
Diabetes mellitus	229 (32.4)
Current smokers	126 (17.8)
Ex-smoker>6mo	141 (19.9)
Obesity	237 (33.5)
Atrial fibrillation	167 (23.6)
Prior CABG	39 (5.5)
Prior MI	153 (21.6)
Chronic kidney disease	88 (12.4)
Disease, n (%)	
ACS	365 (51.6)
NSTEMI	194 (27.4)
STEMI	63 (8.9)
Unstable angina	108 (15.3)
CCS	342 (48.5)
Transthoracic Echocardiography	
Ejection fraction, %, mean (±SD)	53 (±10)
Medication at blood sampling, n (%)	
Oral anticoagulation	155 (21.9)
ACEi/ARB	595 (84.2)
Aldosterone inhibitors	160 (22.6)
Diuretics	263 (37.2)
Calcium chanel blockers	250 (35.4)
Beta blockers	489 (69.2)
Statins	586 (82.9)
ASA	503 (71.1)
Clopidogrel	263 (37.2)
Ticagrelor	160 (22.6)
Prasugrel	82 (11.6)
Laboratory parameters	
Leucocytes, 1000/µl, mean (±SD)	8.4 (±2.9)
Platelets, 1000/µl, mean (±SD)	226 (±69)
Creatinin, mg/dl, mean (±SD)	1.2 (±2.2)
Total cholesterol, mg/dl, mean (±SD)	165 (±45)
LDL-cholesterol, mg/dl, mean (±SD)	103 (±42)
HDL-cholesterol, mg/dl, mean (±SD)	47 (±20)
Triglycerides, mg/dl, mean (±SD)	148 (±105)
C-reactive protein, mg/dl, mean (±SD)	1.2 (±3.0)
HbA1c ,% , mean (±SD)	6.3 (±1.0)

ACEi = angiotensin-converting enzyme inhibitors; ACS = acute coronary syndrome; ARB = an-giotensin II receptor blockers; ASA = acetylsalicylic acid; CABG = coronary artery bypass; CCS = chronic coronary syndrome; HbA1c = glycated haemoglobin;MI = myocardial infarction; NSTEMI = Non-ST-elevation myocardial infarction; STEMI = ST-Elevation Myocardial Infarction.

Supplemental Table S2: Univariate Analysis of Covariance

	p value	Confidence Interval
Platelets, 1000/µl	**0.01**	(0.01 – 0.11)
Age, years	**<0.01**	(-0.87 – -0.24)
Body mass index	0.99	(-0.64 – 0.64)
Gender	**0.01**	(2.8 – 17.1)
Arterial hypertension	0.34	(-15.9 – 5.5)
Diabetes mellitus	**0.01**	(-15.9 – -2.4)
Current smokers	0.51	(-12.2 – 6.1)
Statins	**<0.01**	(-34.0 – -16.3)
Acetylsalicylic acid	**<0.01**	(3.5 – 17.8)
P_2Y_{12} inhibitor	0.275	(-3.431 – 12.038)



Supplemental Figure S1. Correlation of platelet count and plasma lipoproteins in symptomatic coronary artery disease (CAD). Data indicate Pearson's correlation coefficient (A). (B) Correlation of platelet reactivity and LDL plasma levels. The relationship between plasma LDL and platelet aggregation in whole blood was measured by impedance aggregometry in a subgroup of patients with symptomatic CAD (n≥500). Platelets were exposed to different activators like thrombin receptor activating peptide (TRAP, 32 µM) (n=545), arachidonic acid (AA, 484 µM) (n=545), adenosine diphosphate (ADP, 6.5 µM) (n=548) or collagen (3.2 mg/mL) (n=119). Results are presented as area under the curve (AUC) in units (U). Data indicate Pearson's correlation coefficient (B), (C) depicts mean ± SEM of aggregation.