

Supplemental Material 2. Additional data: Plaque Formation Data

No.	Author (year)	Group	Treatment	Indicator	P value
1	Navab et al. (2011)	I	Sc-c-D-4F SQ	Total Plaque	N/A
		II	D-4F SQ	Total Plaque	<0.001
		III	Sc-c-D-4F PO	Total Plaque	N/A
		IV	D-4F PO	Total Plaque	<0.001
2	Ou et al. (2012)	I	Control	Lesion area	<0.05
		II	Negative Control (WD)	Lesion area	N/A
		III	D-4F 4 weeks	Lesion area	<0.05
		IV	D-4F 7 weeks	Lesion area	<0.05
		V	D-4F 10 weeks	Lesion area	<0.05
3	Qin et al. (2012)	I	Control	Lesion area	N/A
		II	L-4F	Lesion area	>0.05
		III	Rev-D-4F	Lesion area	<0.05
4	Chattopadhyay et al. (2013)	IA	WD	Lesion area	N/A
		IIA	WD + L-6F	Lesion area	<0.01
		IB	WD		
		IIB	WD + Tomatoes WT		N/A
		IIIB	WD + Tg6F		
		IC	WD	Lesion area	N/A
		IIC	WD + Tomatoes EV	Lesion area	>0.05
		IIIC	WD + Tg6F	Lesion area	<0.05
5	Ditiatkovski et al. (2013)	I	Control	Total Plaque 4 weeks	N/A
				Total Plaque 16 weeks	N/A
				Arcus plaque 4 weeks	N/A
				Arcus plaque 16 weeks	N/A
				Thoracic plaque 4 weeks	N/A
				Thoracic plaque 16 weeks	N/A
				Abdominal plaque 4 weeks	N/A
		Abdominal plaque 16 weeks	N/A		
		II	ELK-2A2K2E	Lesion area	N/A
				Total Plaque 4 weeks	>0.05
				Total Plaque 16 weeks	>0.05
				Arcus 4 weeks	>0.05
				Arcus 16 weeks	<0.05
				Thoracic 4 weeks	>0.05
Thoracic 16 weeks	>0.05				
Abdominal 4 weeks	>0.05				
Abdominal 16 weeks	>0.05				
6	Li et al. (2013)	I	Negative Control (FA)	Lesion area	>0.05
				Lesion area of aortic sinus	N/A
		II	FA + D-4F	Lesion area*	<0.05
		III	Negative Control (UTP)	Lesion area of aortic sinus	<0.05
				Lesion area	N/A
		Lesion area of aortic sinus	N/A		

		IV	UTP + D-4F	Lesion area	<0.01
7	Uehara et al. (2013)	I	Sc-FAMP	Lesion area of aortic sinus	<0.001
		II	LD FAMP5	Total Plaque	N/A
		III	HD FAMP5	Total Plaque	<0.01
8	Ying et al. (2013)	I	Control	Total Plaque	<0.01
		II	Negative Control (HFD)	Lesion area	<0.001
		III	ST	Lesion area	<0.001
		IV	L-4F	Lesion area	<0.001
		V	ST + L-4F	Lesion area	<0.001
9	Averill et al. (2014)	I	Control	Lesion area	N/A
		II	L-4F	Lesion area	>0.05
10	Zhao et al. (2014)	IA	Control	Lesion area	N/A
				Lesion area of sinus	N/A
		IIA	DMPC ULV	Lesion area	<0.01
				Lesion area of sinus	>0.05
		IIIA	monomer/ DMPC	Lesion area	<0.001
				Lesion area of sinus	<0.001
		IVA	trimer/DMPC	Lesion area	<0.001
				Lesion area of sinus	<0.001
		IB	Control	Lesion area	N/A
				Lesion area of sinus	N/A
		IIB	DMPC MLV	Lesion area	>0.05
				Lesion area of sinus	>0.05
		IIIB	monomer/ DMPC	Lesion area	<0.001
				Lesion area sinus	<0.001
		IVB	trimer/DMPC 75mg/kg	Lesion area	<0.001
				Lesion area sinus	<0.001
		VB	trimer/DMPC 7,5mg/kg	Lesion area	± 7%
				Lesion area sinus	<0.001
11	Schwendeman et al. (2015)	I	Baseline	Lesion area	N/A
				Lesion of Aortic root	N/A
		II	PBS	Lesion area	>0.05
				Lesion of Aortic root	>0.05
		III	5A-POPC	Lesion area	>0.05
				Lesion of Aortic root	>0.05
		IV	5A-SM rHDL	Lesion area	<0.01
				Lesion of Aortic root	<0.05
12	Ditiatkovski et al. (2017)	I	Control	Total Plaque	N/A
				Arcus plaque	N/A
				Thoracic plaque	N/A
				Abdominal plaque	N/A
				Lesion area	N/A
		II	5A	Total Plaque	<0.01
				Arcus plaque	<0.01
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05

				Lesion area	<0.05
		III	ELK-2A2K2E	Total Plaque	<0.01
				Arcus plaque	<0.01
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
		IV	5A-C1	Lesion area	>0.05
				Total Plaque	<0.05
				Arcus plaque	<0.01
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
		V	ELK-2A2K2E + 5A-C1	Lesion area	<0.05
				Total Plaque	<0.05
				Arcus plaque	<0.05
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
		VI	ELKA-CH2	Lesion area	<0.01
				Total Plaque	<0.01
				Arcus plaque	<0.01
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
		VII	ELK-2A	Lesion area	<0.01
				Total Plaque	<0.01
				Arcus plaque	<0.01
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
		VIII	5A-CH1	Lesion area	<0.01
				Total Plaque	<0.01
				Arcus plaque	<0.05
				Thoracic plaque	>0.05
				Abdominal plaque	>0.05
13	Tian et al. (2017)	I	Control	Lesion area	<0.01
				Lesion area	N/A
				Lesion of Aortic root	N/A
		II	Sc-D-4F	Lesion area	>0.05
				Lesion of Aortic root	>0.05
		III	D-4F	Lesion area	<0.05
				Lesion of Aortic root	<0.01
14	Edmunds et al. (2019)	I	NaCl	Total Plaque	N/A
		II	Liraglutide	Total Plaque	>0.05
		III	ApoA-I	Total Plaque	>0.05
		IV	RG54	Total Plaque	<0.05
15	Suematsu et al. (2019)	I	Control	Total Plaque	N/A
		II	FAMP	Total Plaque	<0.05

16	Wu et al. (2020)	III	i-FAMP-D1	Total Plaque	<0.01
		I	PBS	Plaque area	N/A
				Plaque area of aortic valve	N/A
		II	ST	Plaque area	>0.05
				Plaque area of aortic valve	>0.05
		III	MNC@M-ST	Plaque area	>0.05
				Plaque area of aortic valve	>0.05
		IV	AP (Rev-D-4F)	Plaque area	>0.05
				Plaque area of aortic valve	>0.05
		V	MNC@M-AP	Plaque area	>0.05
				Plaque area of aortic valve	>0.05
		VI	MNC@M-ST/AP	Plaque area	<0.001
Plaque area of aortic valve	<0.001				

AP, Apolipoprotein; ApoA-I, Apolipoprotein A-I; DMPC, R)-(+)-1,2-dimyristoyl-sn-glycero-3-phosphocholine; EV, empty vector; FA, filtered air; FAMP, Fukuoka University ApoA-I Mimetic Peptide; HD, high dose; HFD, high-fat diet; i-FAMP, improved-FAMP; LD, low dose; MLV, multilamellar vesicle; mm, millimeter; MNC@M, Fe₃O₄ magnetic nanoclusters coated with anchored leukocyte membrane fragments; NaCl, Natrium Chloride; PBS, phosphate buffer saline; PO, peroral; POPC, palmitoyl oleoyl phosphatidylcholine; Rev-D-4F, Reverse-D-4F; rHDL, reconstituted-HDL; Sc, Scrambled; SM, sphingomyelins; ST, Simvastatin; SQ, subcutaneous; Tg6F, transgenic 6F; UFP, ultrafine particle; ULV, unilamellar vesicle; WD, western diet; WT, wild-type; μ m, micro meter; * = $p < 0.05$; ** = $p < 0.01$; *** = $p < 0.001$.