

SUPPORTING INFORMATION

Oleic Acid, Cholesterol, and Linoleic Acid as Angiogenesis Initiators

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Figure S1

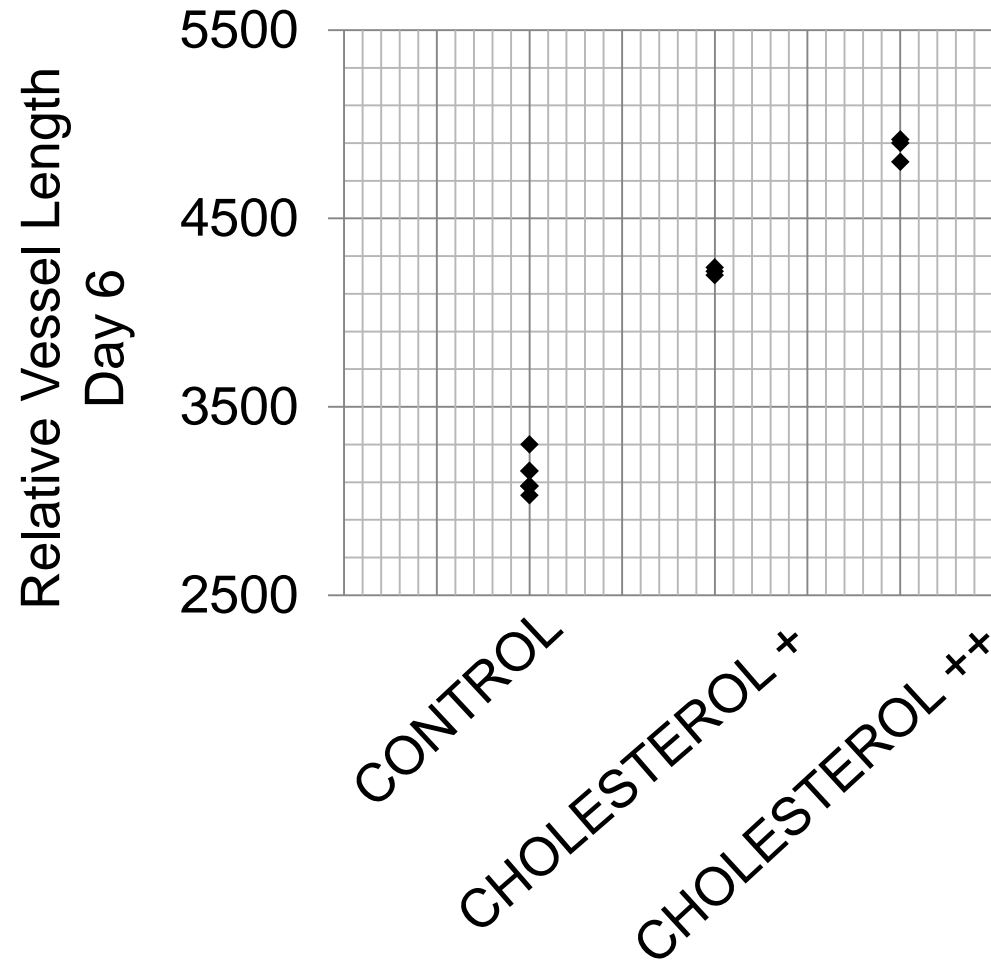


Figure S1. Angiogenic analysis of vessel morphology. Vessel length was analyzed quantitatively using the angiogenic index. Vessel length is shown on control, cholesterol + (55 mg), and cholesterol ++ (110 mg) at day=6 (preincubation day=2 and post-injection of cholesterol day=4).

Figure S2

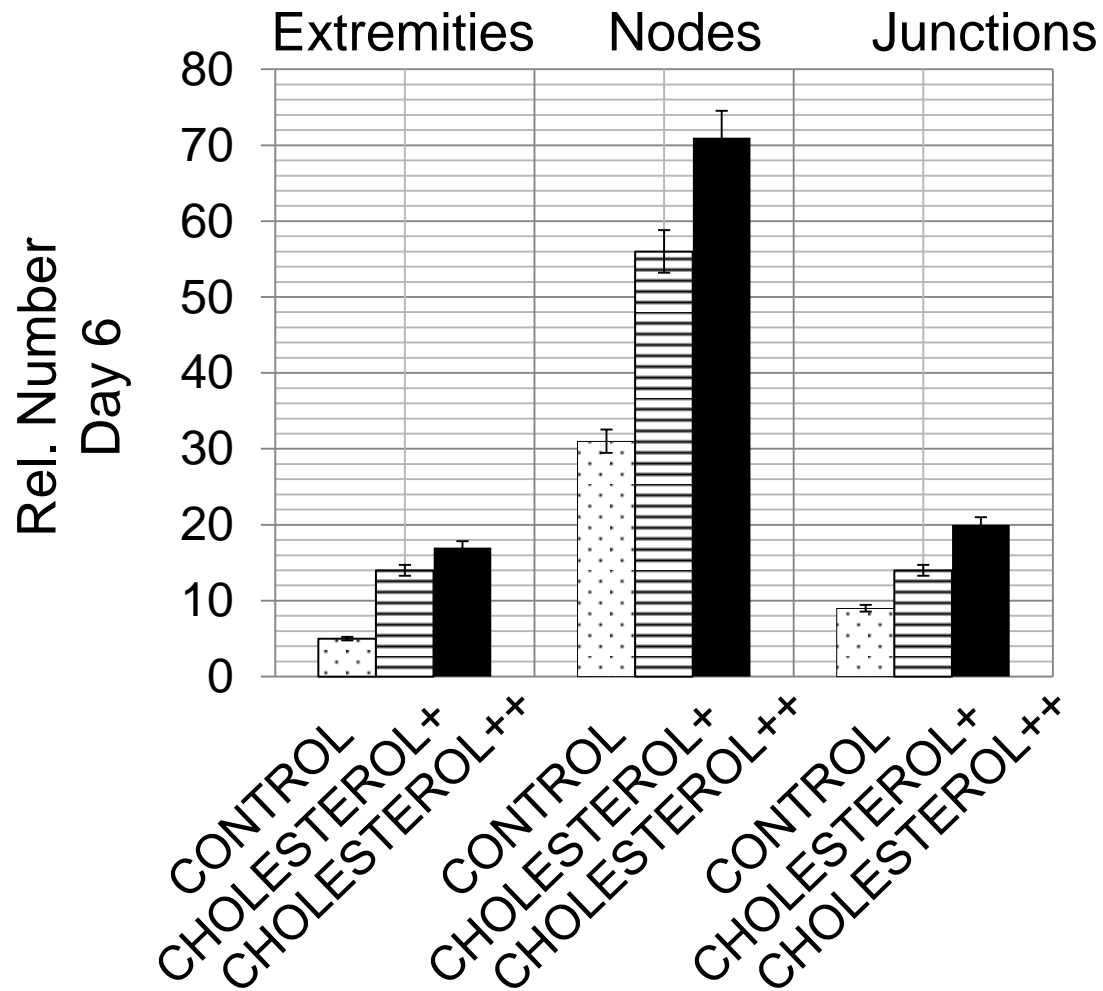


Figure S2. Quantitative analysis of vessel morphology. Extremities, nodes, and junctions are shown on control, cholesterol + (55 mg), and cholesterol ++ (110 mg) at day=6 (preincubation day=2 and post-injection day=4).

Figure S3

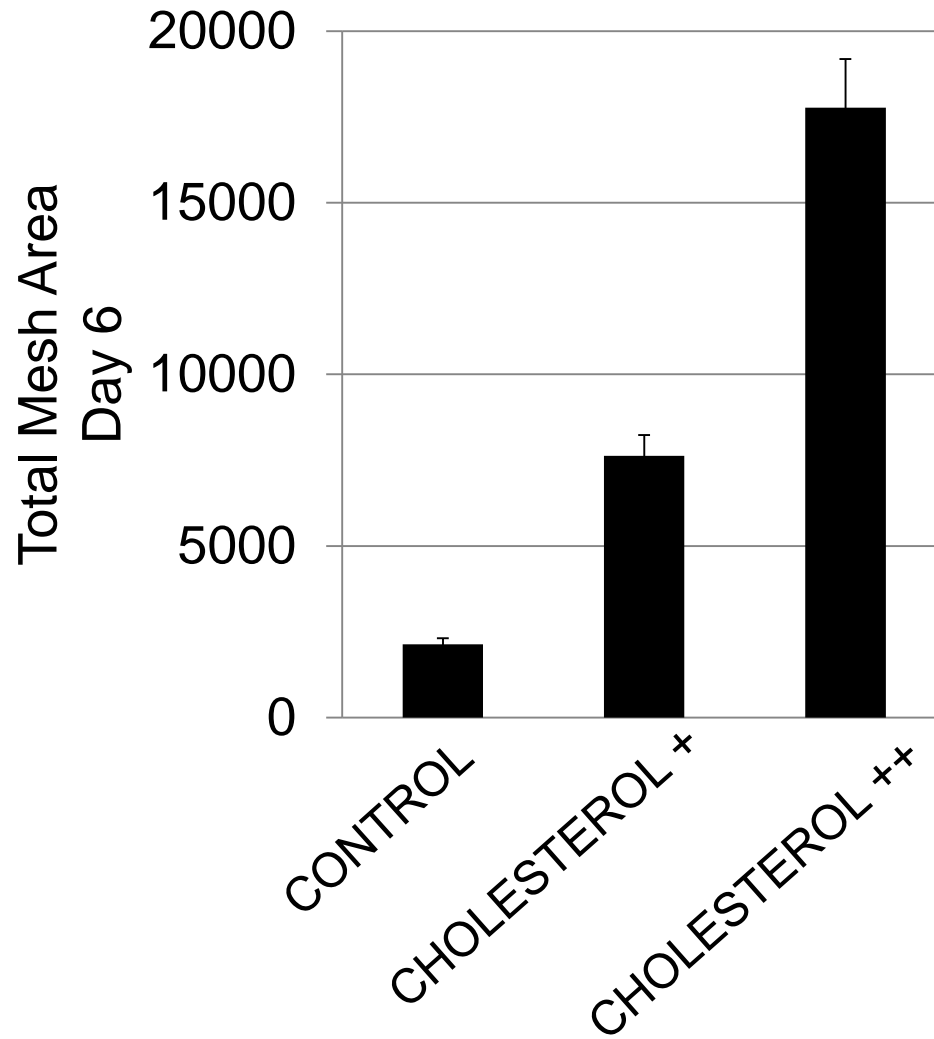


Figure S3. Total mesh area was analyzed quantitatively using Angiogenesis Analyzer on control, cholesterol + (55 mg), and cholesterol ++ (110 mg) at day=6 (preincubation day=2 and post-injection day=4).

Figure S4

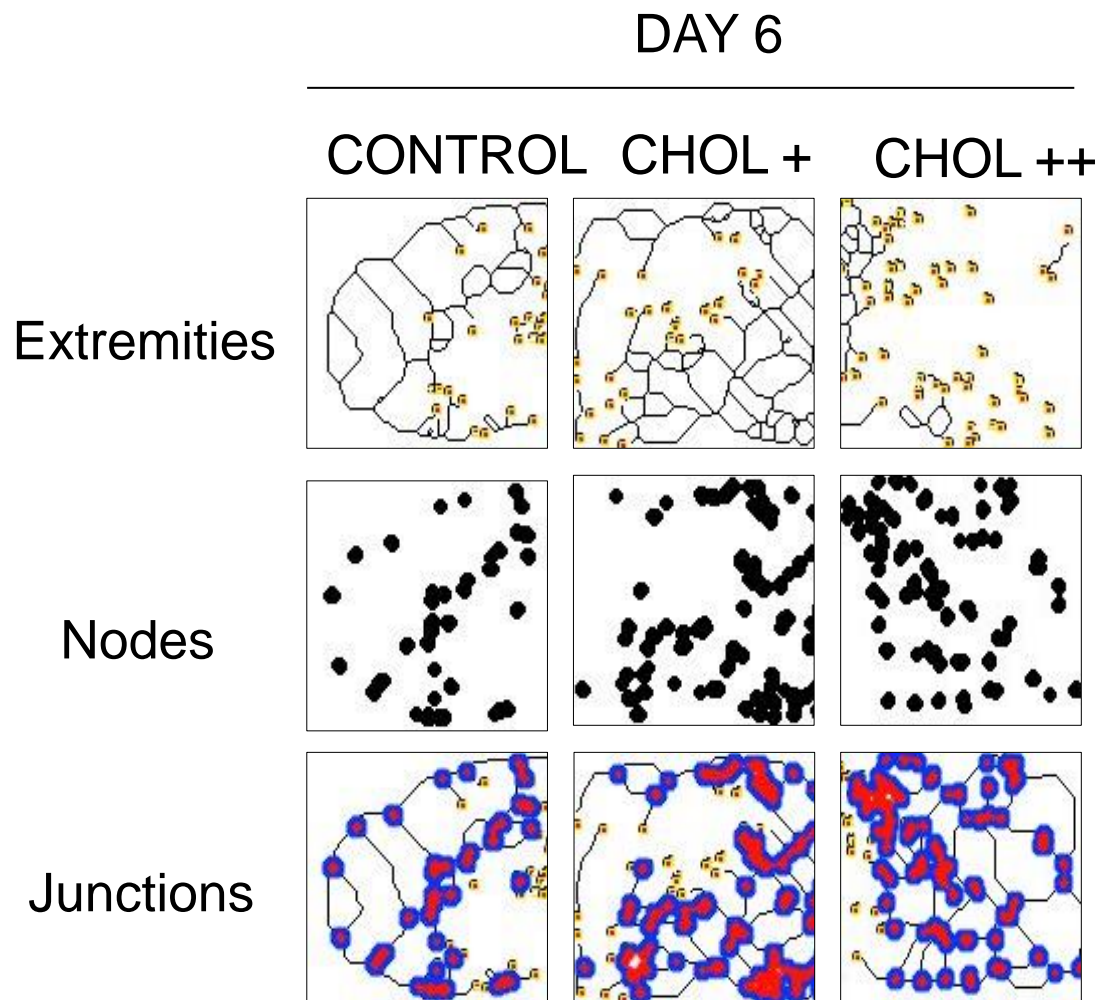


Figure S4. Raw data of extremities, nodes, and junctions are shown on control, cholesterol + (55 mg), and cholesterol ++ (110 mg) at day=6 (preincubation day=2 and post-injection day=4).

Figure S5

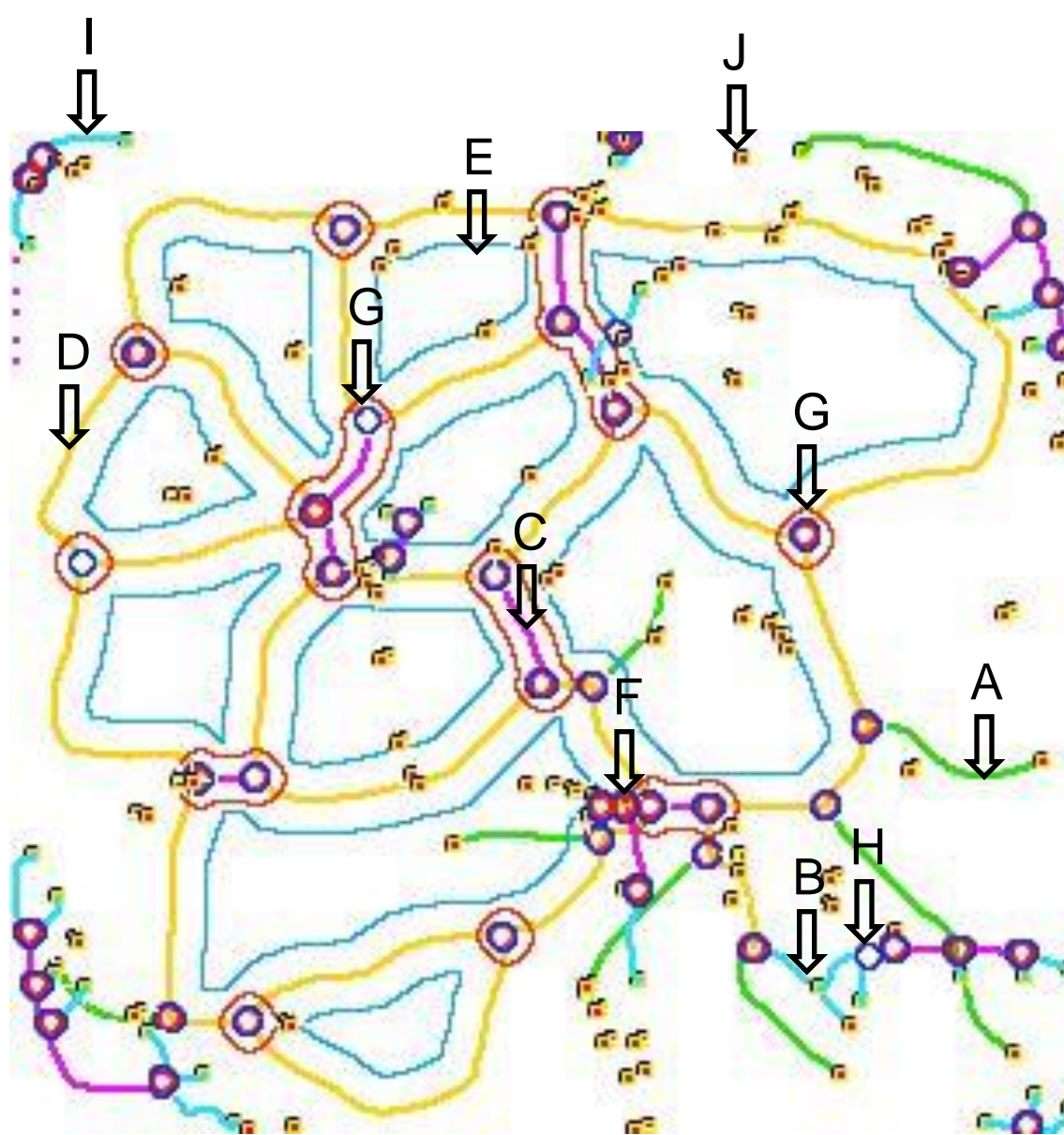


Figure S5. Angiogenesis analysis. Each vessel morphology was assigned using the arrows including: (A) green = branches; (B) cyan = twigs; (C) magenta = segments; (D) orange = master segments; (E) sky blue = meshes; (F) red surrounded by blue = nodes surrounded by junction's symbol; (G) junctions surrounded by red = master junctions; (H) blue = isolated elements; (I) cyan = small isolated elements; (J) red surrounded by yellow = extremities.

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Table S1

Image Name	Analyzed	Nb extrem	Nb nodes	Nb Junctic	Nb master	Nb master	Tot. maste	Nb meshes	Tot.meshe	Nb peaces	Nb segmei	Nb branch	Nb isol. se	Tot. lengh	Tot. brancl	Tot. segme	Tot. branc	Tot. isol. t	Branching	Mesh inde	Mean Mes	Path
cholesterol + day 3 (1-t)	88128	8	87	25	11	21	1628	10	42094	42	34	8	0	2009	2009	1616	393	0	202	148	4209.4	
cholesterol + day 3 (1-t)	88128	12	42	9	4	5	558	2	4946	23	11	11	1	1235	1170	487	683	65	44.273	139.5	2473	
cholesterol + day 3 (1-t)	88128	7	36	13	7	11	856	4	14469	23	16	7	0	1263	1263	769	494	0	109.857	122.286	3617.2	
cholesterol + day 3 (1-t)	88128	7	23	7	1	2	569	1	4457	14	7	7	0	998	998	503	495	0	71.857	569	4457	
cholesterol + day 3 (1-t)	88128	4	14	4	1	2	504	1	4459	8	4	4	0	941	941	474	467	0	118.5	504	4459	
cholesterol + day 3 (1-t)	88128	4	12	4	1	2	503	1	4446	8	4	4	0	929	929	471	458	0	117.75	503	4446	
cholesterol + dav 3 (1-t)	88128	4	15	4	1	2	501	1	4430	8	4	4	0	924	924	472	452	0	118	501	4430	

Table S1. A representative analysis of cholesterol-added vessel morphology using Angiogenesis Analyzer.