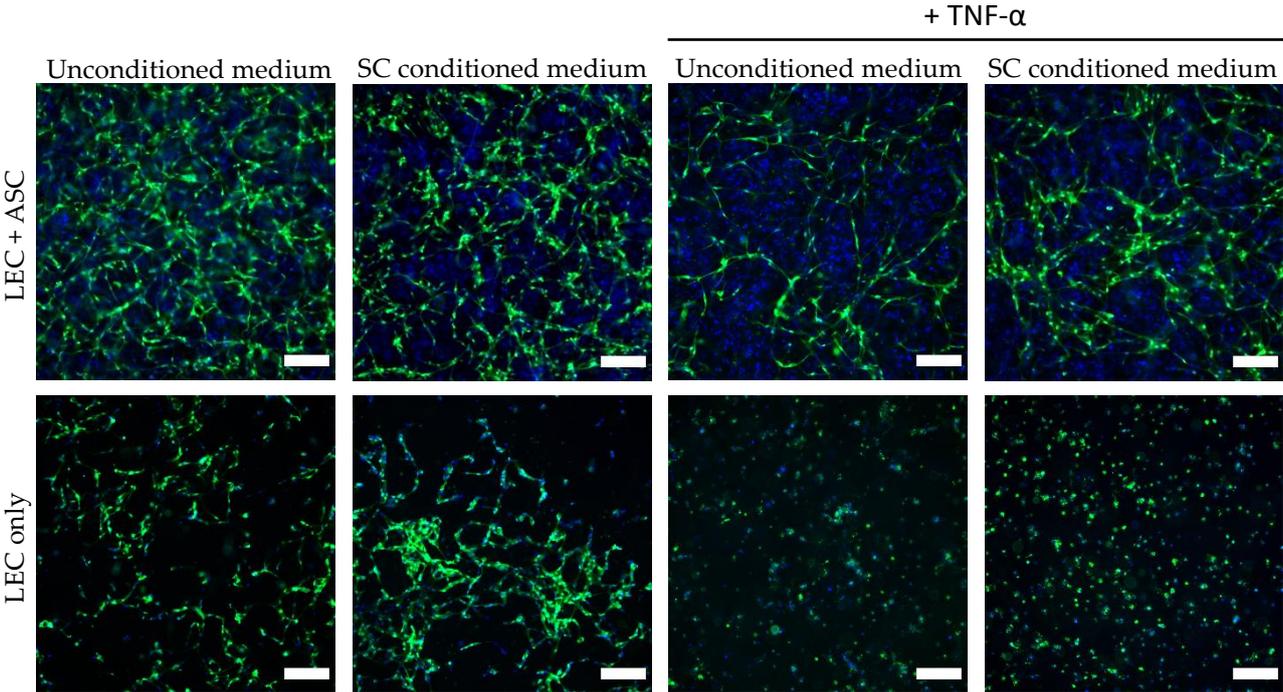
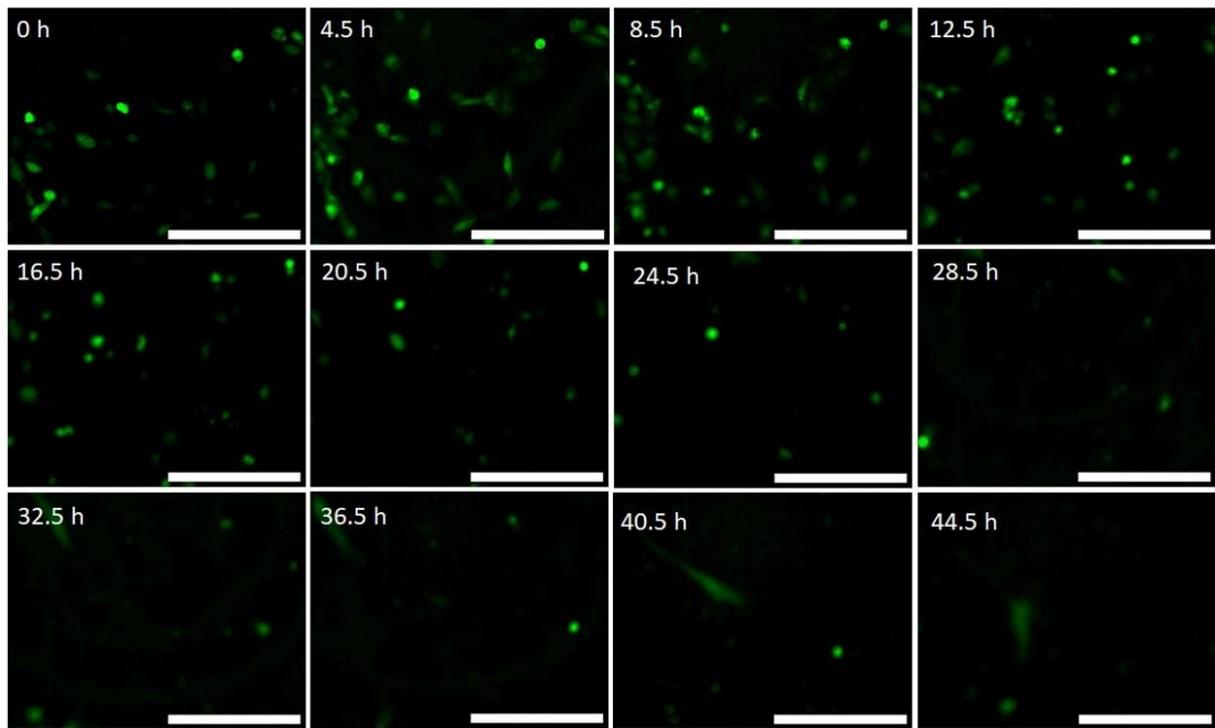


Supplementary Figures



Supplementary Figure 1: Lymphatic network formation is hindered when cultivated in Schwann cell-conditioned medium. LECs and ASCs or LECs only were cultivated in fibrin hydrogels for 7 days containing either unconditioned medium or Schwann-cell conditioned medium. LECs failed to form tube-like structures when cultivated in SC-conditioned medium and furthermore clustered together. In contrast, this effect was less pronounced when LECs were cultivated with ASCs. Green – LECs. Scale bars = 200 μ m.



Supplementary Figure 2: Live cell imaging of YFP-LEC and SC co-culture with the JuLI Smart fluorescent analyzer offers visual confirmation of the diminishing number of YFP-LECs present in the selected field of view, over 48 hours. Exhibited in this figure are selected images collected during the 48 hour time period showcasing YFP-LECs exhibiting green fluorescence. SCs are not fluorescently labeled and are therefore not visualized here. Scale bars = 100 μ m.

Supplementary Tables:

Supplementary Table 1: Detailed statistics report of Angiotool network quantification.

Tukey's multiple comparisons test	Tubule length rel. pos. ctrl					No of Junctions rel. pos. ctrl					Vessels percentage area					n1	n2
	Mean Diff,	95,00% CI of diff,	Below threshold?	Summary	Adjusted P Value	Mean Diff,	95,00% CI of diff,	Below threshold?	Summary	Adjusted P Value	Mean Diff,	95,00% CI of diff,	Below threshold?	Summary	Adjusted P Value		
LEC + SC + ASC vs. LEC + SC + ASC + TNF	49.81	32,70 to 66,92	Yes	****	<0,0001	42.54	18,84 to 66,24	Yes	****	<0,0001	21.19	15,72 to 26,66	Yes	****	<0,0001	24	23
LEC + SC + ASC vs. LEC + SC	73.57	49,64 to 97,51	Yes	****	<0,0001	64.2	31,05 to 97,36	Yes	****	<0,0001	28.16	20,51 to 35,81	Yes	****	<0,0001	24	8
LEC + SC + ASC vs. LEC + SC + TNF	67.22	44,30 to 90,14	Yes	****	<0,0001	60.55	28,80 to 92,29	Yes	****	<0,0001	26.54	19,22 to 33,87	Yes	****	<0,0001	24	9
LEC + SC + ASC vs. LEC + ASC	-20.68	-37,13 to -4,230	Yes	**	0.0041	-34.47	-57,25 to -11,69	Yes	***	0.0002	-9.524	-14,78 to -4,268	Yes	****	<0,0001	24	27
LEC + SC + ASC vs. LEC + ASC + TNF	-4.885	-21,33 to 11,56	No	ns	0.984	-16.39	-39,17 to 6,392	No	ns	0.3482	-1.525	-6,934 to 3,883	No	ns	0.9882	24	27
LEC + SC + ASC vs. LEC only	18.61	-4,310 to 41,52	No	ns	0.2038	14.84	-16,91 to 46,58	No	ns	0.8362	6.573	-0,7503 to 13,90	No	ns	0.1129	24	9
LEC + SC + ASC vs. LEC only + TNF	72.61	43,79 to 101,4	Yes	****	<0,0001	61.22	21,29 to 101,1	Yes	***	0.0002	27.56	18,35 to 36,77	Yes	****	<0,0001	24	5
LEC + SC + ASC + TNF vs. LEC + SC	23.76	-0,3009 to 47,83	No	ns	0.0556	21.66	-11,67 to 55,00	No	ns	0.4835	6.966	-0,7246 to 14,66	No	ns	0.1062	23	8
LEC + SC + ASC + TNF vs. LEC + SC + TNF	17.41	-5,642 to 40,46	No	ns	0.2867	18.01	-13,92 to 49,94	No	ns	0.662	5.353	-2,013 to 12,72	No	ns	0.3349	23	9
LEC + SC + ASC + TNF vs. LEC + ASC	-70.49	-87,12 to -53,85	Yes	****	<0,0001	-77.01	-100,1 to -53,97	Yes	****	<0,0001	-30.72	-36,03 to -25,40	Yes	****	<0,0001	23	27
LEC + SC + ASC + TNF vs. LEC + ASC + TNF	-54.69	-71,33 to -38,06	Yes	****	<0,0001	-58.93	-81,98 to -35,89	Yes	****	<0,0001	-22.72	-28,18 to -17,25	Yes	****	<0,0001	23	27
LEC + SC + ASC + TNF vs. LEC only	-31.2	-54,26 to -8,151	Yes	**	0.0014	-27.7	-59,63 to 4,227	No	ns	0.1402	-14.62	-21,98 to -7,251	Yes	****	<0,0001	23	9
LEC + SC + ASC + TNF vs. LEC only + TNF	22.8	-6,129 to 51,73	No	ns	0.2363	18.68	-21,40 to 58,75	No	ns	0.8382	6.369	-2,876 to 15,61	No	ns	0.405	23	5
LEC + SC vs. LEC + SC + TNF	-6.354	-34,84 to 22,14	No	ns	0.9972	-3.659	-43,12 to 35,80	No	ns	>0,9999	-1.613	-10,72 to 7,491	No	ns	0.9994	8	9
LEC + SC vs. LEC + ASC	-94.25	-117,9 to -70,65	Yes	****	<0,0001	-98.68	-131,4 to -65,99	Yes	****	<0,0001	-37.68	-45,22 to -30,14	Yes	****	<0,0001	8	27
LEC + SC vs. LEC + ASC + TNF	-78.46	-102,1 to -54,86	Yes	****	<0,0001	-80.6	-113,3 to -47,91	Yes	****	<0,0001	-29.68	-37,33 to -22,03	Yes	****	<0,0001	8	27
LEC + SC vs. LEC only	-54.97	-83,46 to -26,48	Yes	****	<0,0001	-49.37	-88,83 to -9,906	Yes	**	0.0044	-21.58	-30,69 to -12,48	Yes	****	<0,0001	8	9
LEC + SC vs. LEC only + TNF	-0.9631	-34,39 to 32,46	No	ns	>0,9999	-2.988	-49,29 to 43,31	No	ns	>0,9999	-0.5965	-11,28 to 10,08	No	ns	>0,9999	8	5
LEC + SC + TNF vs. LEC + ASC	-87.9	-110,5 to -65,33	Yes	****	<0,0001	-95.02	-126,3 to -63,76	Yes	****	<0,0001	-36.07	-43,28 to -28,86	Yes	****	<0,0001	9	27
LEC + SC + TNF vs. LEC + ASC + TNF	-72.11	-94,67 to -49,54	Yes	****	<0,0001	-76.94	-108,2 to -45,68	Yes	****	<0,0001	-28.07	-35,39 to -20,75	Yes	****	<0,0001	9	27
LEC + SC + TNF vs. LEC only	-48.61	-76,25 to -20,97	Yes	****	<0,0001	-45.71	-83,99 to -7,426	Yes	**	0.008	-19.97	-28,80 to -11,14	Yes	****	<0,0001	9	9
LEC + SC + TNF vs. LEC only + TNF	5.391	-27,31 to 38,09	No	ns	0.9996	0.6706	-44,63 to 45,97	No	ns	>0,9999	1.016	-9,434 to 11,47	No	ns	>0,9999	9	5
LEC + ASC vs. LEC + ASC + TNF	15.79	-0,1648 to 31,75	No	ns	0.0546	18.08	-4,023 to 40,18	No	ns	0.196	7.999	2,742 to 13,26	Yes	***	0.0002	27	27
LEC + ASC vs. LEC only	39.28	16,72 to 61,85	Yes	****	<0,0001	49.31	18,05 to 80,57	Yes	****	<0,0001	16.1	8,886 to 23,31	Yes	****	<0,0001	27	9
LEC + ASC vs. LEC only + TNF	93.29	64,74 to 121,8	Yes	****	<0,0001	95.69	56,15 to 135,2	Yes	****	<0,0001	37.08	27,96 to 46,21	Yes	****	<0,0001	27	5
LEC + ASC + TNF vs. LEC only	23.49	0,9250 to 46,06	Yes	*	0.035	31.23	-0,02978 to 62,49	No	ns	0.0504	8.099	0,7752 to 15,42	Yes	*	0.0193	27	9
LEC + ASC + TNF vs. LEC only + TNF	77.5	48,95 to 106,0	Yes	****	<0,0001	77.61	38,07 to 117,1	Yes	****	<0,0001	29.09	19,88 to 38,30	Yes	****	<0,0001	27	5
LEC only vs. LEC only + TNF	54	21,30 to 86,71	Yes	****	<0,0001	46.38	1,082 to 91,68	Yes	*	0.0407	20.99	10,54 to 31,44	Yes	****	<0,0001	9	5