

Experimental sub-normothermic machine perfusion for non-allocable human liver grafts: First data

Bettina Leber¹, Stephanie Schlechter¹, Jennifer Weber¹, Lisa Rohrhofer¹, Tobias Niedrist³, Ariane Aigelsreiter², Philipp Stiegler^{1*}, Peter Schemmer¹

¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Auenbruggerplatz 2, 8036 Graz, Austria

²Diagnostic and Research Institute of Pathology, Medical University of Graz, Neue Stiftingtalstraße 6, 8010 Graz, Austria

³Clinical Institute of Medical and Chemical Laboratory Diagnostics, Medical University of Graz, Auenbruggerplatz 15, 8036 Graz, Austria

*Correspondence: philipp.stiegler@medunigraz.at; Tel.: +43 316 385 81181

Table S1 Liver parameters in perfusate prior to onset of SNMP (SCS), after 1h of SNMP and after 24 hours of SNMP.

Organ No.	AP (U/l)			GGT (U/l)			ALT (U/l)			AST (U/l)			LDH (U/l)			LAC (mmol/l)		
	SCS	1h	24h	SCS	1h	24h	SCS	1h	24h	SCS	1h	24h	SCS	1h	24h	SCS	1h	24h
L1	75	7	22	19	3	18	3328	919	1438	3716	945	2145	7660	2185	3482	8.14	3.83	3.05
L2	1	1	9	0	0	7	24	60	333	83	117	603	112	255	1085	1.32	2.40	13.89
L3	16	18	57	4	4	58	1445	2115	3385	2612	3546	7492	4039	5358	8501	3.82	6.33	11.51
L4	25	11	47	4	2	28	6075	1697	2204	4883	1426	2430	9074	2989	3783	5.26	6.85	16.87
L5	11	1	13	0.7	0	6	267	164	318	364	180	407	658	325	662	3.17	4.72	4.97
L6	17	5	15	1	1	9	325	65	1090	291	54	2369	762	178	2184	4.47	2.95	4.24
L7	52	7	11	5.5	0	7	813	109	351	1860	204	696	3208	399	1255	10.89	4.65	21.02
L8	66	2	4.2	52	5	23	17190	2645	1644	18497	2734	2636	32975	6344	4442	8.89	3.91	6.26
L9	8.9	2	3.5	1.4	1	4	398	84	473	499	120	709	868	231	1046	6.57	3.51	8.05
L10	13	2	3	2.7	1	2	531	128	203	471	138	231	1064	271	426	4.99	2.47	6.02
L11	16	2	4.1	2.3	2	7	69	123	233	173	244	463	407	448	797	2.93	6.59	32.21
L12	46	1	7.1	14	0	7	743	54	151	1319	146	351	2469	252	564	13.95	8.04	3.77
L13	59	3	6.7	18	5	11	2056	1073	789	5589	2598	2383	6462	3337	2637	8.98	3.73	3.18
L14	nm	0	5	nm	0	3	nm	192	279	nm	465	723	nm	685	1131	nm	2.71	0.60
L15	233	1	19	44	2	21	6020	463	472	8000	774	838	11000	1579	1642	11.71	4.21	3.55
L16	51	16	33	27	13	43	4472	1974	1731	5039	2098	1993	8455	4047	3553	6.91	11.00	28.10

nm: not measurable

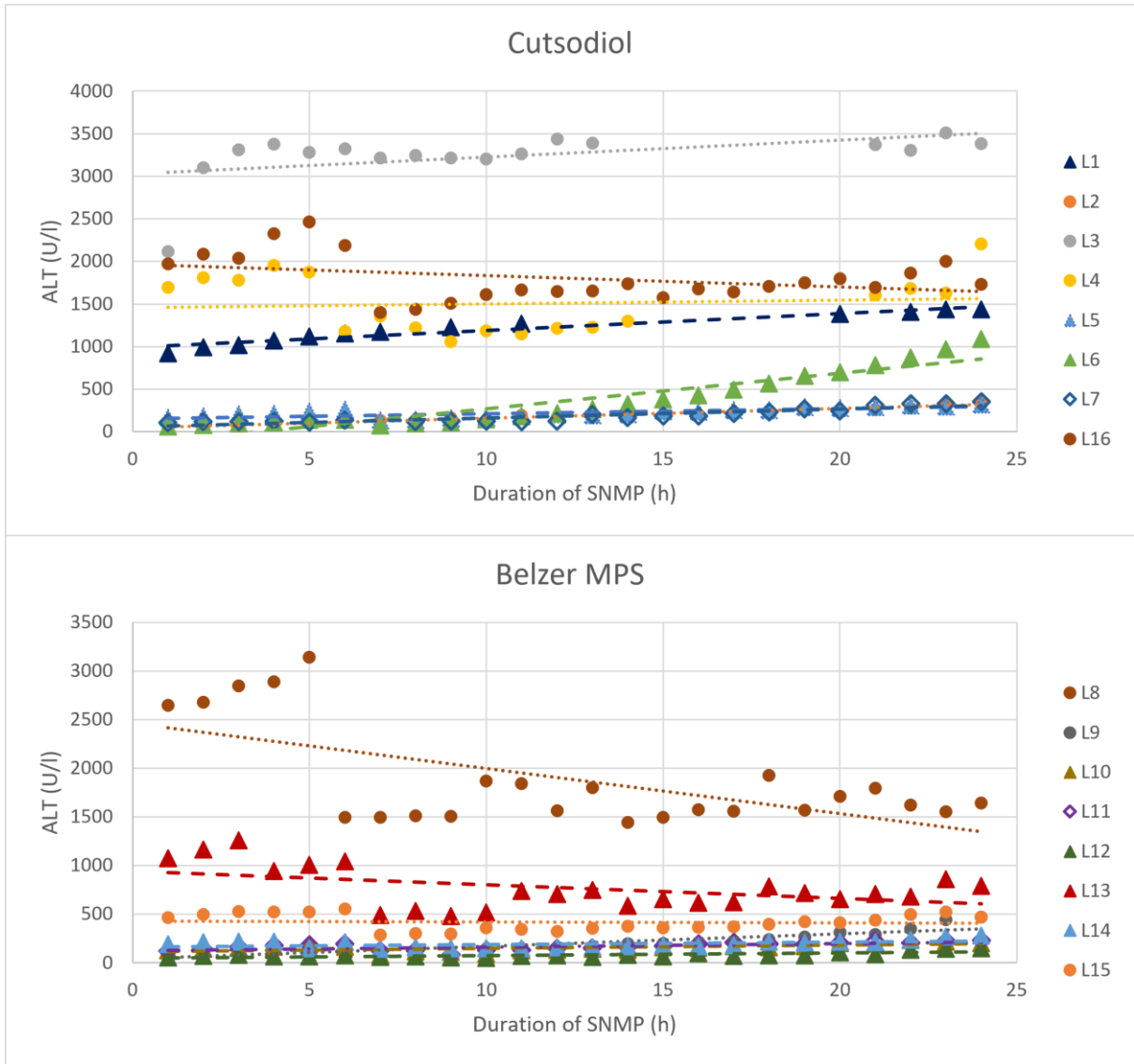


Figure S1 ALT levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.

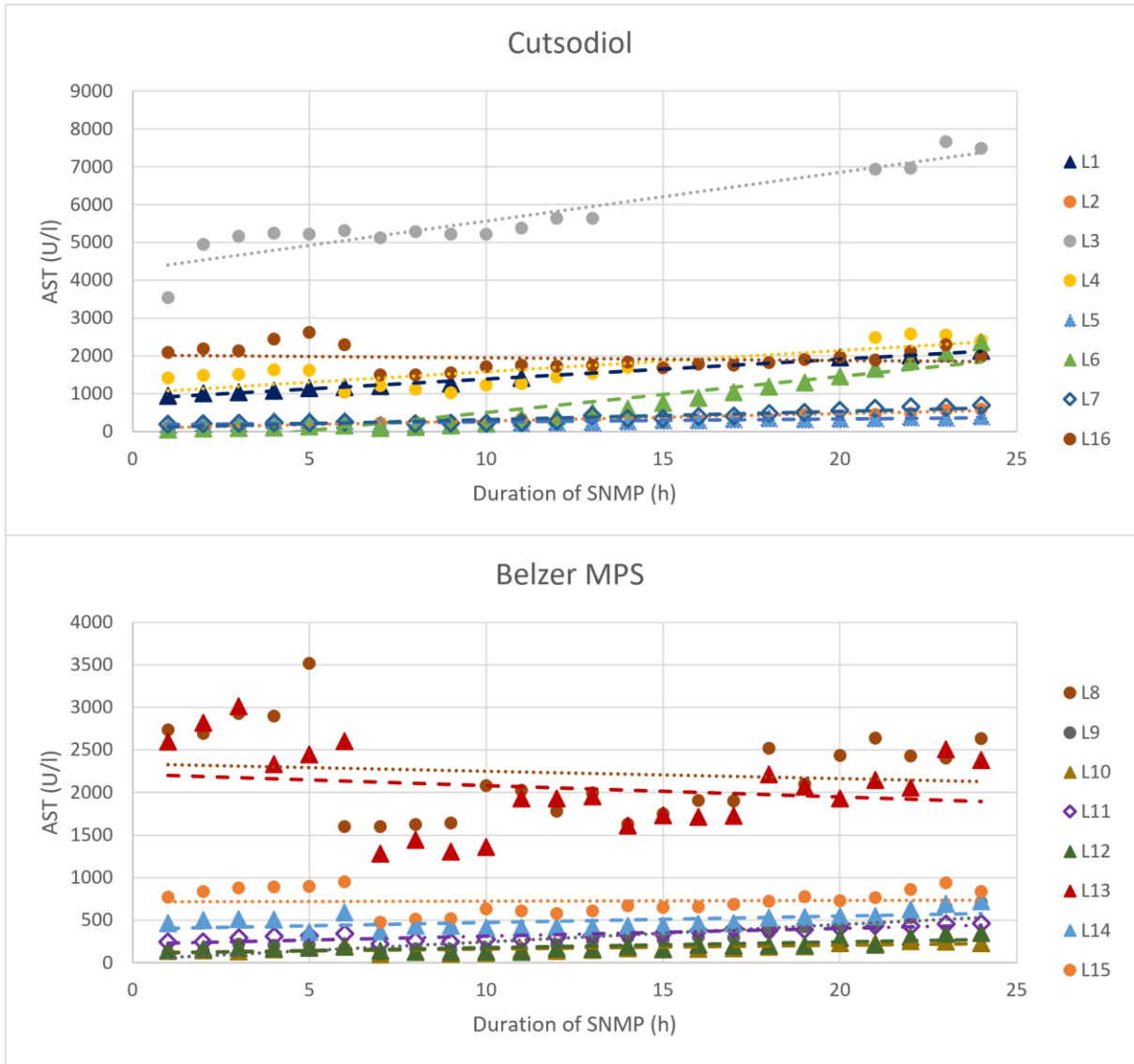


Figure S2 AST levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.

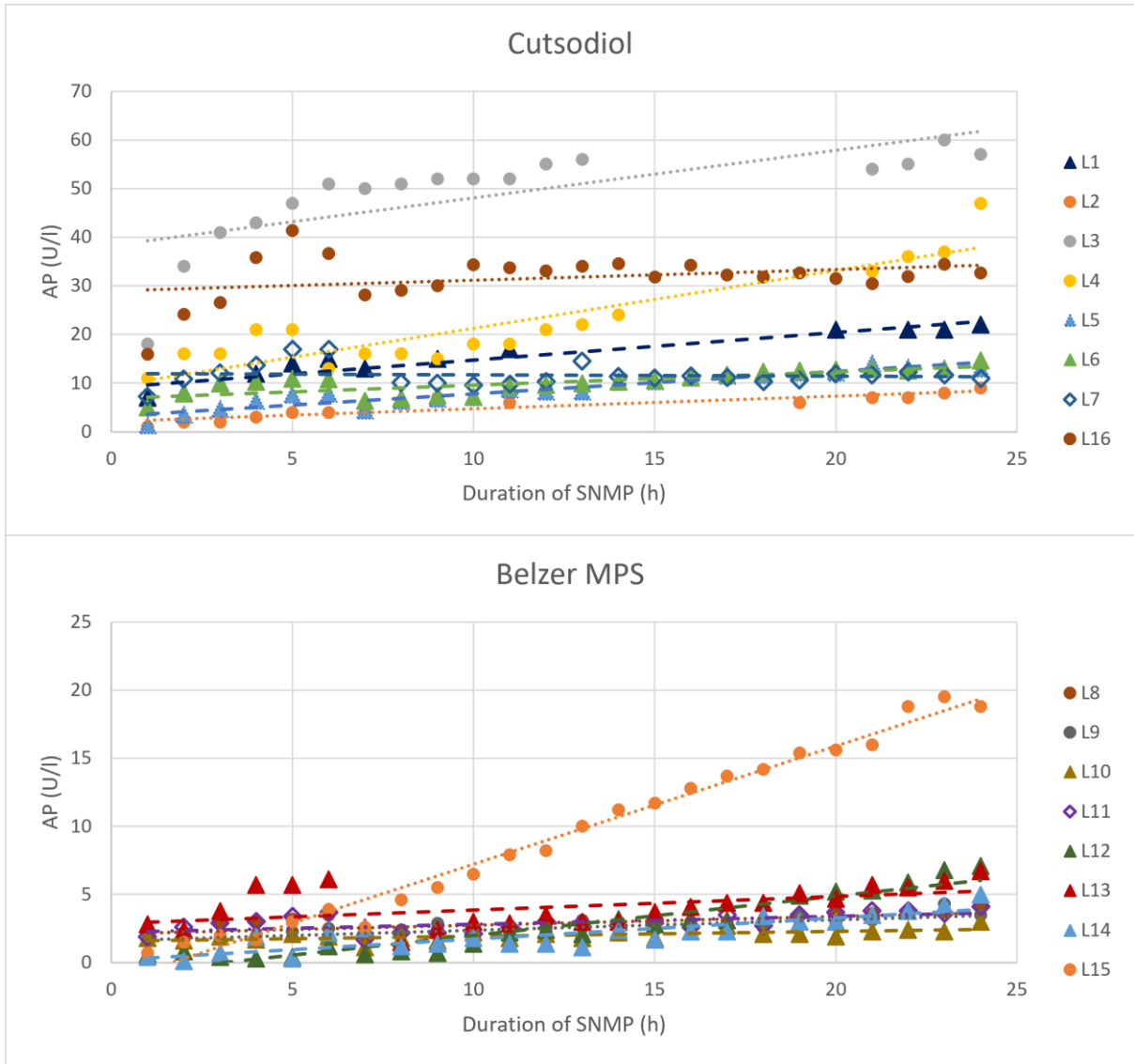


Figure S3 AP levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.

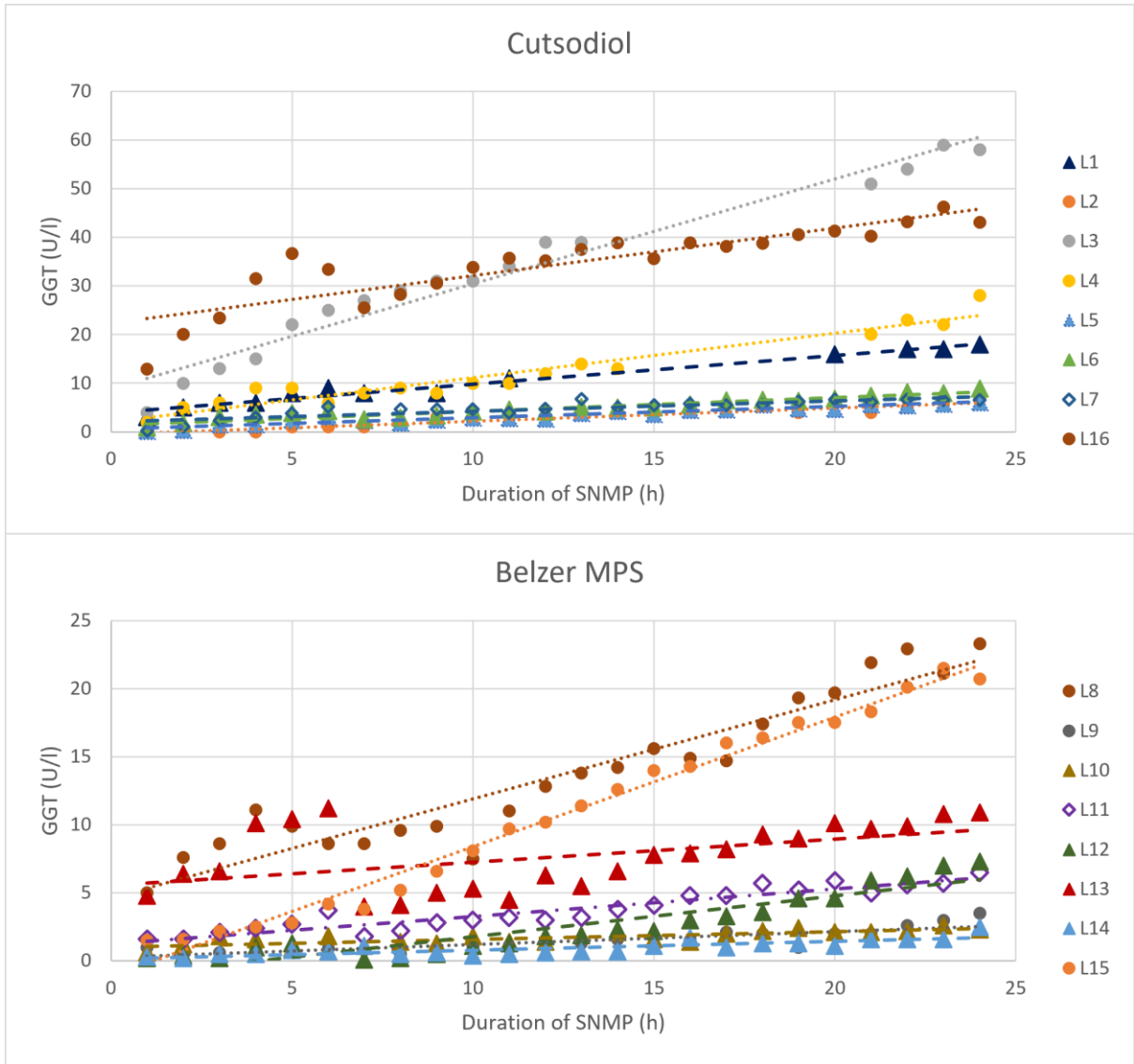


Figure S4 GGT levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.

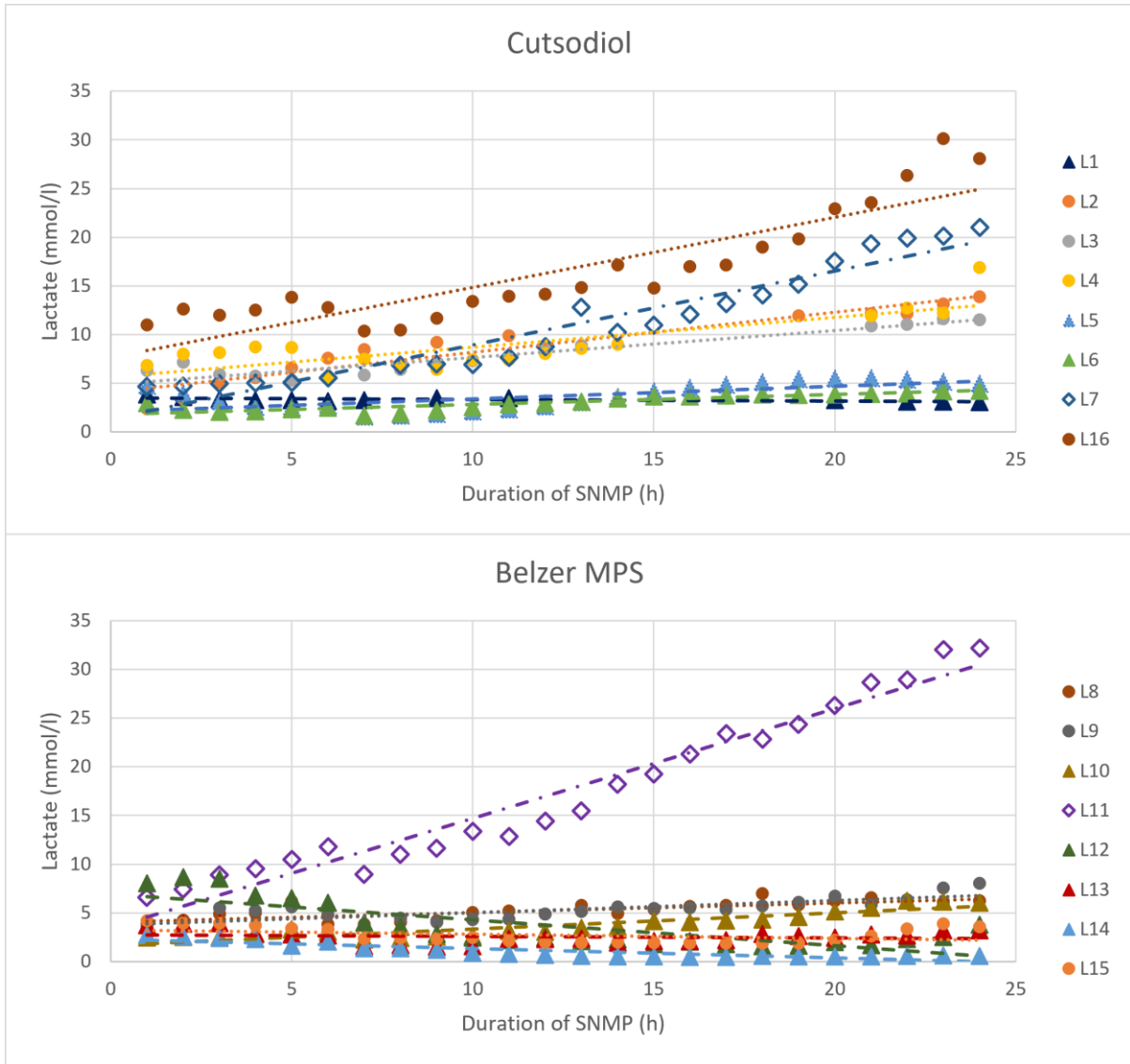


Figure S5 Lactate levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.

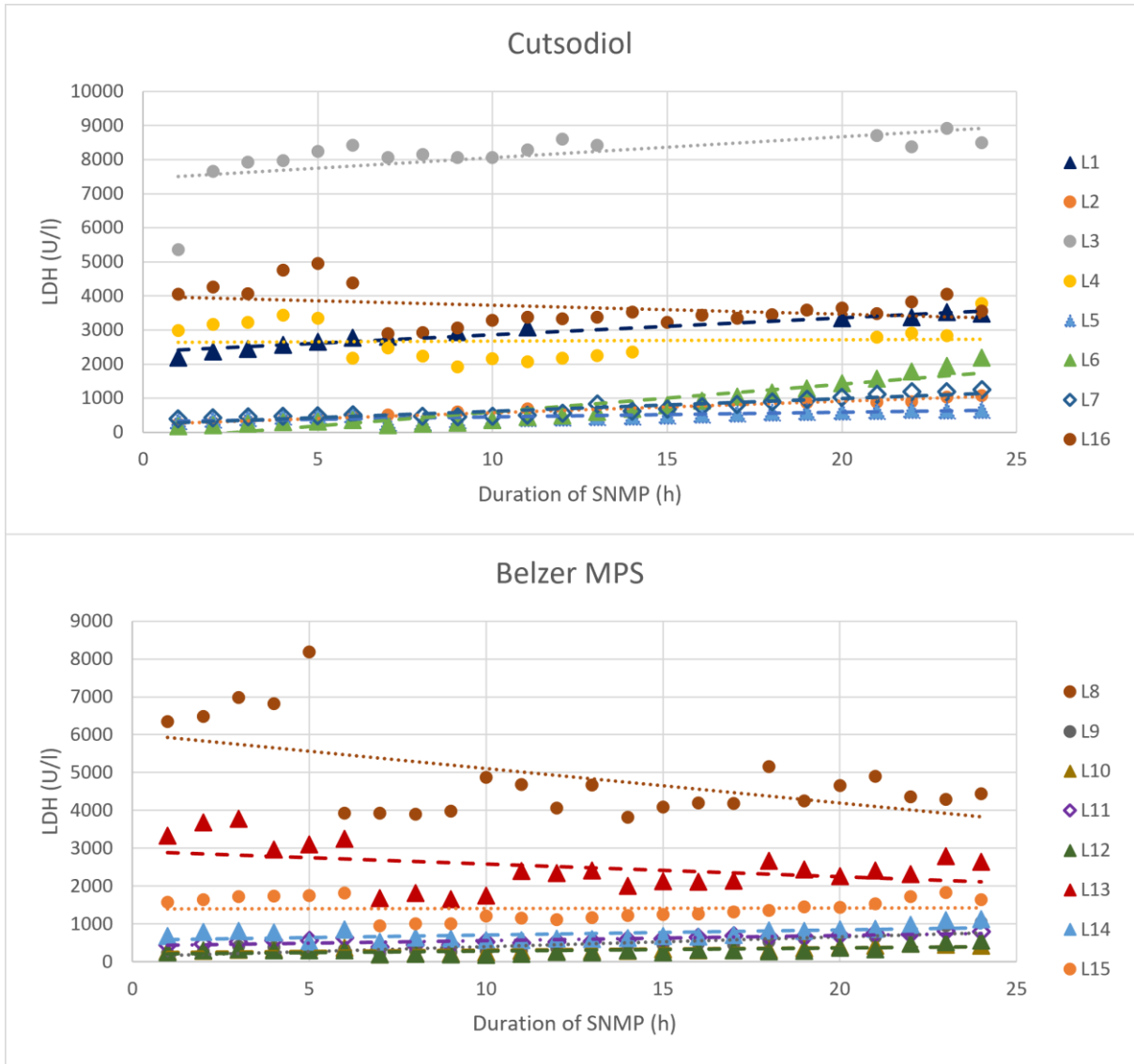


Figure S6 LDH levels of livers subjected to sub-normothermic machine perfusion grouped by Perfusate used. Dots: Steatotic livers; Open Diamonds: Cirrhotic livers; Triangles: Livers rejected for other reasons. Lines represent linear fit for respective data set.