## HemaGraph: Breaking Barriers in Hematologic Single Cell Classification with Graph Attention

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## Supplementary Material

Following Table 1 shows the graph statistics for every patient in our dataset, where the number of edges come from the kNN graph (we used k = 7) with added self-loops:

Patient	# Cells	# Edges	T Cells (%)	B Cells (%)	Monocytes (%)	Mast Cells (%)	Hematopoietic (%)
0	94664	757312	66439 (70.18%)	11773 (12.44%)	12768 (13.49%)	66 (0.07%)	3618 (3.82%)
1	21915	175320	7839 (35.77%)	$2982 \ (13.61\%)$	6073 (27.71%)	$100 \ (0.46\%)$	$4921\ (22.45\%)$
2	85217	681736	49738 (58.37%)	$13307 \ (15.62\%)$	8938 (10.49%)	86 (0.10%)	13148 (15.43%)
3	76704	613632	44914~(58.55%)	7521 (9.81%)	16964 (22.12%)	$138 \ (0.18\%)$	7167 (9.34%)
4	107637	861096	52221 (48.52%)	9787 (9.09%)	27350 (25.41%)	$160 \ (0.15\%)$	18119 (16.83%)
5	76125	609000	$26920 \ (35.36\%)$	$4768 \ (6.26\%)$	30124 (39.57%)	$158 \ (0.21\%)$	14155 (18.59%)
6	81182	649456	61417 (75.65%)	7484 (9.22%)	$4753 \ (5.85\%)$	18 (0.02%)	$7510 \ (9.25\%)$
7	48143	385144	$30190 \ (62.71\%)$	10799 (22.43%)	3064~(6.36%)	68 (0.14%)	$4022 \ (8.35\%)$
8	27137	217096	13667~(50.36%)	$136 \ (0.50\%)$	$4431\ (16.33\%)$	$30 \ (0.11\%)$	8873 (32.70%)
9	120654	965232	68396 (56.69%)	47653 (39.50%)	3788 (3.14%)	$136 \ (0.11\%)$	$681 \ (0.56\%)$
10	83704	669632	28560 (34.12%)	5313 (6.35%)	33976 (40.59%)	31~(0.04%)	15824 (18.90%)
11	27091	216726	19633 (72.47%)	1582 (5.84%)	5116 (18.88%)	3 (0.01%)	757 (2.79%)
12	37797	302376	22788 (60.29%)	3768 (9.97%)	8522 (22.55%)	$232 \ (0.61\%)$	2487 (6.58%)
13	24626	197008	16627 (67.52%)	4307 (17.49%)	2156 (8.75%)	42~(0.17%)	1494 (6.07%)
14	114043	912344	86021 (75.43%)	12369 (10.85%)	11357 (9.96%)	51 (0.04%)	4245 (3.72%)
15	63750	510000	43842 (68.77%)	12719 (19.95%)	4764 (7.47%)	$11 \ (0.02\%)$	2414 (3.79%)
16	109781	878248	37995 (34.61%)	39854 (36.30%)	20879 (19.02%)	$278 \ (0.25\%)$	10775 (9.81%)
17	88001	704008	61466 (69.85%)	6487 (7.37%)	12614 (14.33%)	$26 \ (0.03\%)$	7408 (8.42%)
18	20212	161696	12920 (63.92%)	3656 (18.09%)	$2620 \ (12.96\%)$	27 (0.13%)	989 (4.89%)
19	49863	398904	$38406 \ (77.02\%)$	3111 (6.24%)	4340 (8.70%)	$40 \ (0.08\%)$	$3966 \ (7.95\%)$
20	86991	695928	55871 (64.23%)	14300 (16.44%)	8307 (9.55%)	4 (0.00%)	8509 (9.78%)
21	74477	595816	46971 (63.07%)	$15616 \ (20.97\%)$	$5681 \ (7.63\%)$	$38 \ (0.05\%)$	$6171 \ (8.29\%)$
22	49774	398192	31063~(62.41%)	$8375 \ (16.83\%)$	4699 (9.44%)	815 (1.64%)	4822 (9.69%)
23	133820	1070560	111218 (83.11%)	5749 (4.30%)	10868 (8.12%)	51 (0.04%)	5934 (4.43%)
24	53192	425536	$37326 \ (70.17\%)$	576 (1.08%)	11163 (20.99%)	30~(0.06%)	$4097 \ (7.70\%)$
25	66972	535776	42925~(64.09%)	974 (1.45%)	$16500 \ (24.64\%)$	399~(0.60%)	$6174 \ (9.22\%)$
26	22253	178024	8100 (36.40%)	11386 (51.17%)	2027 (9.11%)	4~(0.02%)	736 (3.31%)
27	42758	342064	24857 (58.13%)	51 (0.12%)	$10836 \ (25.34\%)$	117~(0.27%)	$6897 \ (16.13\%)$
28	64569	516552	50091 (77.58%)	3452 (5.35%)	5826 (9.02%)	271 (0.42%)	4929 (7.63%)
29	121287	970296	91772 (75.67%)	867 (0.71%)	5809 (4.79%)	149 (0.12%)	22690 (18.71%)

Table 1: Graph statistics for every patient of the dataset. For the sake of simplicity, every percentage value has been rounded to two decimal digits.