

**Table S1.** Characteristics of patients with chronic lymphocytic leukemia (CLL).

Patient	Driver mutations	IGHV status	SCNA	Progression (months)	Survival (months)
1		mutated	13q14het	no	alive
2		mutated		51	51
3	<i>BCOR</i> ; <i>NOTCH1</i> 3'UTR	unmutated	13q14hom; G2p16; L18p	18	alive
4		mutated	13q14hom	no	alive
5		mutated		47	46
6		mutated	13q14het	no	alive
7	<i>PAX5</i> enhancer	mutated		79	79
8	<i>PAX5</i> enhancer	indeterminate	13q14het	no	alive
9	<i>KLHL6</i>	mutated	tri12	54	54
10		mutated	13q14het	no	alive
11		mutated	13q14het	no	alive
12		mutated		87	87
13		mutated	13q14het	no	alive
14	<i>POT1</i> ; <i>PAX5</i> enhancer	mutated	13q14het	no	alive
15		mutated	13q14hom	41	99
16	<i>SF3B1</i> ; <i>TP53</i> del; <i>ZNF292</i> del	unmutated	17p;L6q15;G2p16;G3q26;G5q34;G8q24	1	82
17		mutated	13q14het	no	alive
18		indeterminate	13q14het	12	12
19	<i>NOTCH1</i> ; <i>SF3B1</i>	unmutated		0	alive
20		mutated	13q14het	47	47
21		mutado		no	alive
22	<i>PAX5</i> enhancer	mutated	13q14het	no	alive
23		mutated	13q14hom	no	alive
24	<i>SF3B1</i> ; <i>TP53</i> del; <i>XPO1</i> ; <i>ARID1A</i> ; <i>FBXW7</i> ; <i>MGA</i> ; <i>SETD2</i>	unmutated	17p	0	36
25		unmutated	13q14het	no	alive
26	<i>CNOT3</i>	unmutated		no	alive
27	<i>PAX5</i> enhancer	mutated	13q14het	no	alive
28		mutated	13q14het; L6q15	no	alive
29	<i>ATM</i>	mutated	13q14het	44	alive
30	<i>BIRC3</i> del; <i>PAX5</i> enhancer and promoter	mutated	11q; tri12	86	86

31	<i>KLHL6</i>	mutated	13q14hom	No	alive
32		mutated	13q14het	No	alive
33		mutated	13q14het	No	alive
34		mutated		36	alive
35		mutated	13q14het	1	alive
36	<i>ZNF292; SETD2 del; SF3B1</i>	unmutated	13q14het; L3p21.31	29	55
37	<i>SF3B1</i>	mutated	tri12; tri18	38	38
38		mutated	13q14het	No	alive
39	<i>TP53 del; CHD2</i>	mutated	13q14hom; G2p16; L18p	91	91
40	<i>PAX5 enhancer</i>	mutated		No	alive
41	<i>HIST1H1B</i>	mutated		57	57
42	<i>BIRC3; CNOT3</i>	mutated		35	68
43		mutated	13q14het	no	alive
44		mutated	13q14het	no	alive
45	<i>CCND2</i>	mutated	13q14het	3	69
46		mutated	13q14hom	no	alive
47		mutated	13q14het	no	alive
48		mutated		96	96
49	<i>CHD2 del</i>	mutated	G3q26; L15q26	no	alive
50		mutated	13q14het	no	alive
51		mutated	13q14het	no	alive
52		mutated		no	alive
53	<i>CHD2</i>	mutated	13q14het	no	alive
54	<i>SF3B1</i>	mutated	L20p	9	alive
55		mutated	13q14het	no	alive

SCNA: somatic copy number alteration; *IGHV*, immunoglobulin heavy chain genes.