

## Supplementary File 1

<b>Table S1.</b> Demographic data of patients with ataxia-telangiectasia							
<b>Patients</b>	<b>Sex</b>	<b>Consanguinity</b>	<b>Child Death or Miscarriage History</b>	<b>A-T family History</b>	<b>Status</b>	<b>Age</b>	<b>Follow up Time (Years)</b>
P1	Male	Yes (first cousin)	Yes (2 miscarriages)	No	Alive	12.5	7
P2	Male	No	Unknown (adapted child)	Unknown	Alive	11	6
P3	Female	No	No	No	Alive	13	9
P4	Male	Yes (first cousin)	Yes (2 miscarriages)	No	Dead (ALL)	16	5
P5	Female	No	No	Yes (A-T in cousin)	Alive	14	6
P6	Male	Yes (beyond second cousin)	No	Yes (A-T in cousin)	Alive	5	3.5
P7	Male	Yes (first cousin)	—	—	Dead (ALL)	11	3
P8	Female	Yes (first cousin)	Yes (3 miscarriages)	No	Alive	14	3
P9	Female	Yes (first cousin)	No	No	Alive	8.9	2.4
P10	Female	Yes (beyond second cousin)	No	No	Alive	10	2.5
P11	Female	Yes (first cousin)	No	No	Alive	9.9	1.9
P12	Female	No	No	Yes (uncle with A-T)	Alive	10	8
P13	Female	Yes (first cousin)	Yes (death in siblings)	No	Alive	14	7
P14	Female	Yes (first cousin)	Yes (1 miscarriage)	No	Alive	15.9	8.9
P15	Male	Yes (first cousin)	No	No	Alive	6.3	2
P16	Female	No	Yes (death in siblings at the age of 1 year)	No	Alive	9	5
P17	Female	Yes (first cousin)	No	Yes (A-T in cousin)	Alive	7	1
P18	Male	Yes (first cousin)	No	No	Alive	9	1

A-T, Ataxia telangiectasia; ALL, acute lymphoblastic leukemia.

**Table S2.** Recorded lab data for patients with ataxia-telangiectasia

Patients	<b>Supplementary File 1</b>									
	Alfa fetoprotein level (ng/mL)	IgM (g/L)	IgG (g/L)	IgA (g/L)	CD3+ Cells (%)	CD4+ Cells (%)	CD8+ Cells (%)	CD4+/CD8+ Cells (%)	CD19+ Cells (%)	CD20+ Cells (%)
<b>P1</b>	105.3	—	4.8	1.48	65	33	31	1.06	11	—
<b>P2</b>	181	—	10.43	1.10	55	25	30	0.83	17	15
<b>P3</b>	164.8	4.81	3.89	1.20	67	36	30	1.2	1.07	—
<b>P4</b>	289	6.77	<1.9	0.28	36	23	11	2.09	1	1
<b>P5</b>	—	—	—	—	—	—	—	—	—	—
<b>P6</b>	321	0.82	13.3	0.01	—	—	—	—	—	—
<b>P7</b>	252.8	3.55	—	0.15	—	—	—	—	—	—
<b>P8</b>	—	1.72	21.79	0.12	29.6	16.2	11.8	1.4	11.5	10.9
<b>P9</b>	783.7	2.42	—	0.01	38.9	12.7	27.7	0.44	10.1	10.3
<b>P10</b>	442.7	1.31	12	<0.01	45.8	19.4	25	0.78	4.8	5.7
<b>P11</b>	288	2.6	11.5	1.02	71.3	17.75	52.4	0.34	8.92	8.92
<b>P12</b>	175.7	1	28.5	0.13	37.37	12.45	16.04	0.78	3.86	3.78
<b>P13</b>	175.7	0.9	5.35	—	58	29	29	1	2	2
<b>P14</b>	—	4.32	2.07	0.24	56	21	34	0.62	10	10
<b>P15</b>	—	0.737	7.67	0.52	44	29	12	2.42	4	4
<b>P16</b>	191	2.3	13	0.01	40	22	16	1.37	17	—
<b>P17</b>	22.6	1.22	4.95	1.48	44	27.07	13.97	1.94	11.53	10.96
<b>P18</b>	272.6	1.6	8.5	1.90	63	42	29	1.4	16	—