

**Supplementary Table 1. Chemical moieties involved in coordination of chlorophyll *a/b*.**

	Chlorophyll <i>a/b</i>										
	His	Met	1x H <sub>2</sub> O	2x H <sub>2</sub> O	Gln	back-bone	Lipid	Asp	Glu	Asn	Total
<b>All subunits</b>	84	2	13/1	22/19	13	11/7	10	5/3	28	11	199/30
<b>PsaA</b>	32	1	3	4	3	1	1				45
<b>PsaB</b>	31	1	5		1		1	1			40
<b>PsaF</b>				2				1			3
<b>PsaG</b>	1							1			2
<b>PsaJ</b>									1		1
<b>PsaK</b>	1			1		1		1			4
<b>PsaL</b>	1		1								2
<b>Lhca1_a</b>	2			3/2		1/1	1		3	1	11/3
<b>Lhca1_b</b>	2		1/1	2/1		1/1	1		3	1	11/3
<b>Lhca3</b>	2		1	2/1	2	2			3	1	13/1
<b>Lhca4</b>	1			1/3	1	0/1	1	1/1	3	2	10/5
<b>Lhca5</b>	3			2/3	1	2	1	0/1	3	1	13/4
<b>Lhca6</b>	3		1	1/3	1	0/2	1	0/1	3	1	11/6
<b>Lhca7</b>	2		1	2/2	1	1/1	1		3	1	12/3
<b>Lhca8</b>	2			2/2	1	1/1	1		3	1	11/3
<b>Lhca9</b>	1			0/2	2	1	1		3	2	10/2