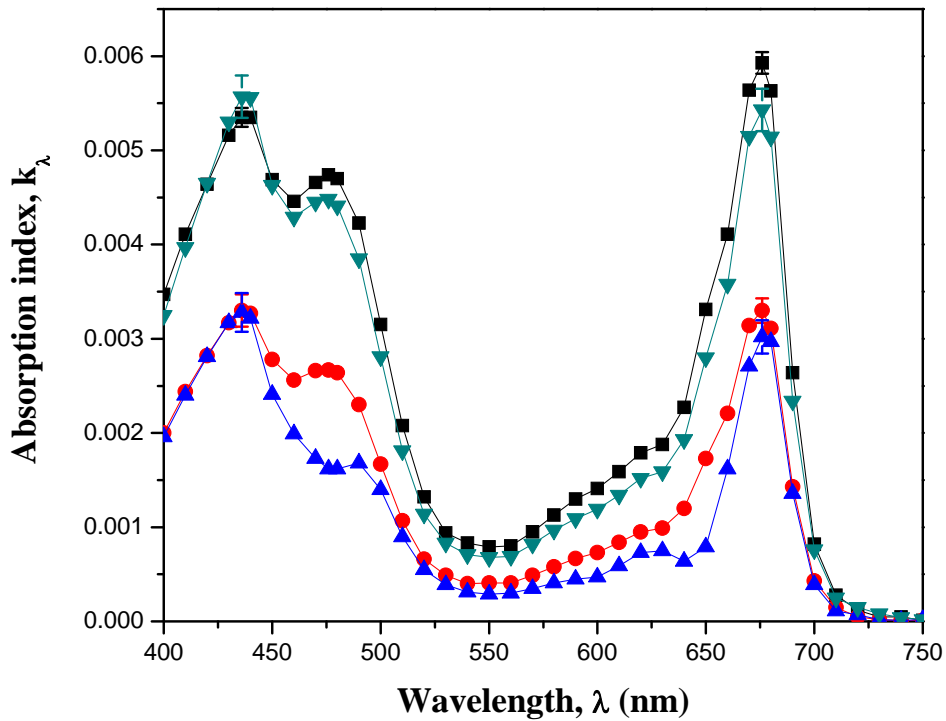
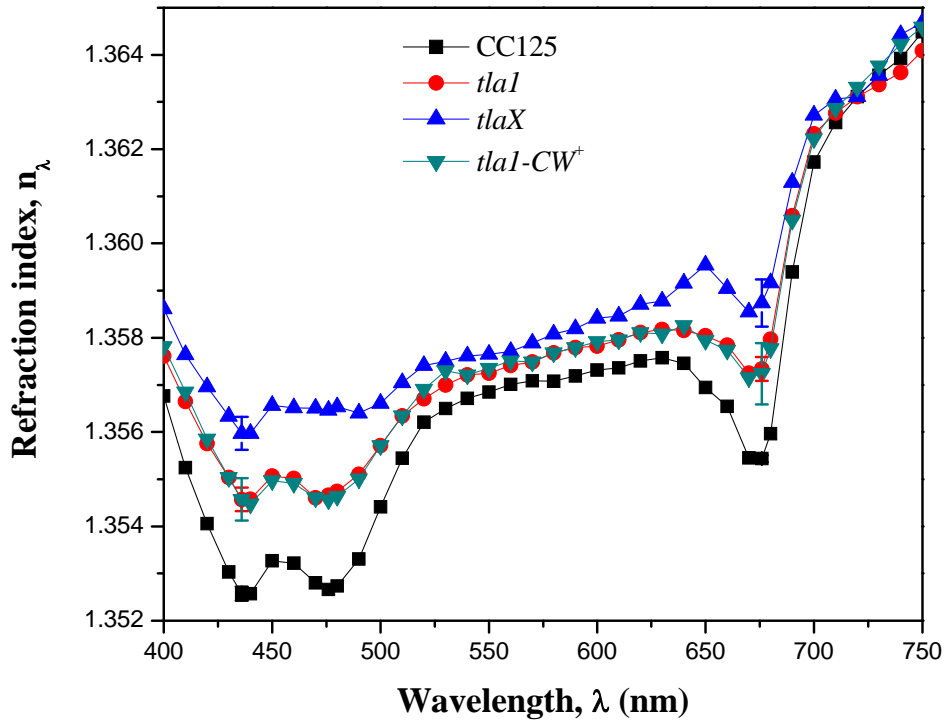
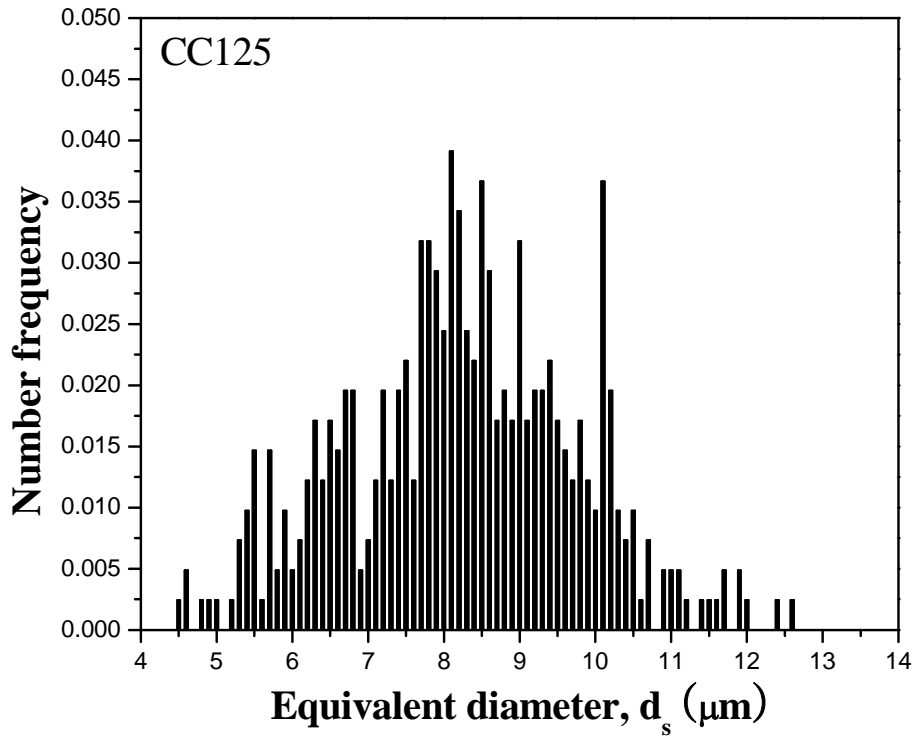


Refraction and absorption index of *Chlamydomonas reinhardtii* and its mutants

Source: Euntaek Lee, Ri-Liang Heng, Laurent Pilon, "Spectral optical properties of selected photosynthetic microalgae producing biofuels", Journal of Quantitative Spectroscopy and Radiative Transfer, Vol.114, pp.122-135. <http://dx.doi.org/10.1016/j.jqsrt.2012.08.012>

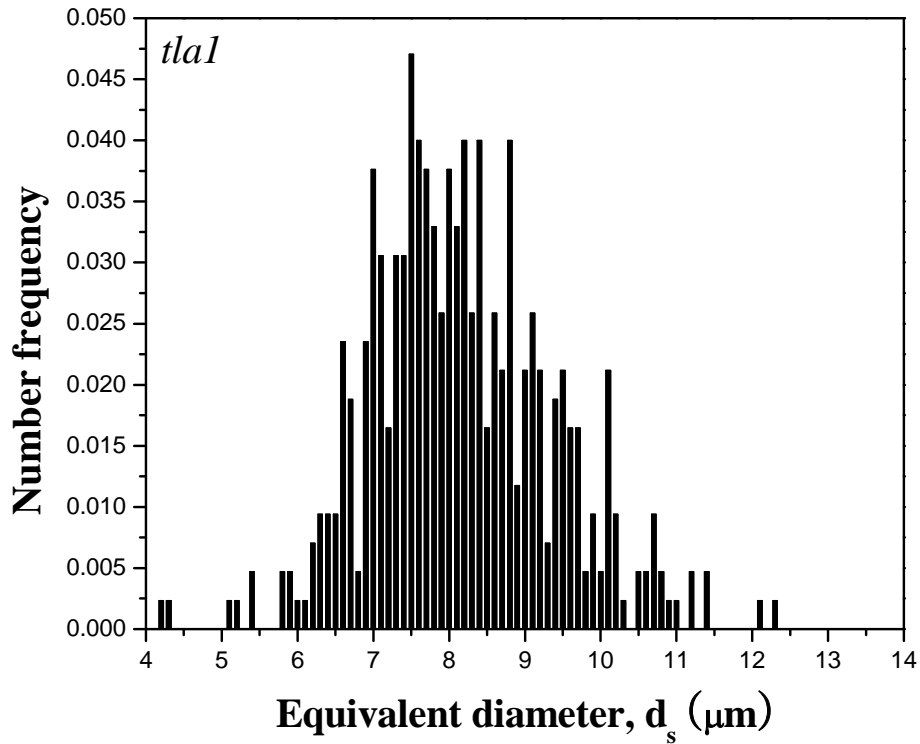


Refraction and absorption index of *Chlamydomonas reinhardtii* CC125



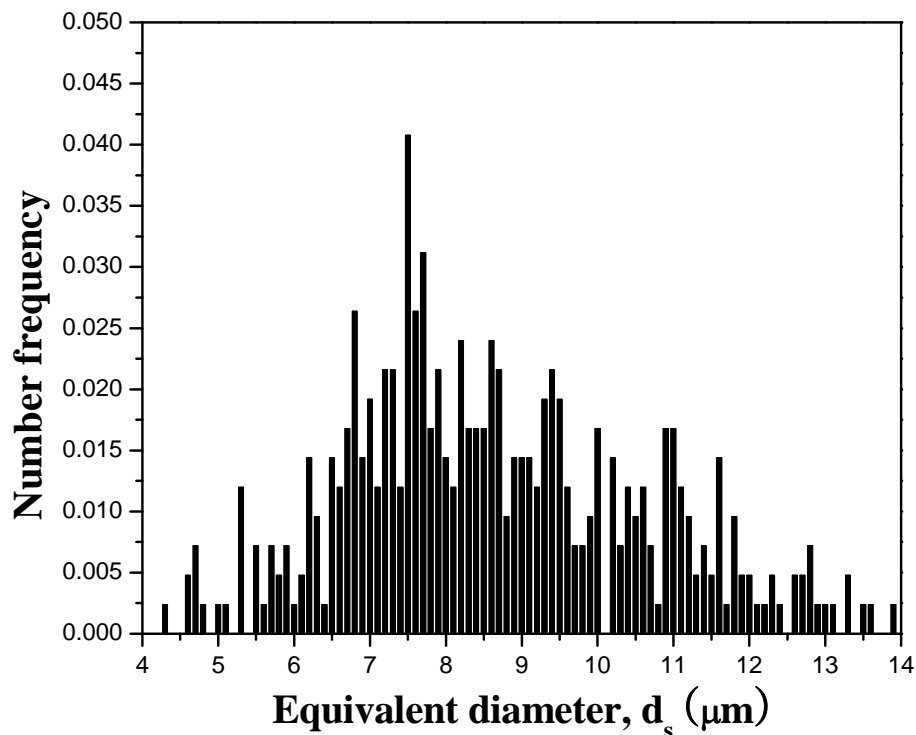
λ (nm)	Refraction index, n_λ	Absorption index, k_λ	λ (nm)	Refraction index, n_λ	Absorption index, k_λ
400	1.35677	0.00347	580	1.35708	0.00113
410	1.35525	0.00411	590	1.35719	0.00130
420	1.35406	0.00464	600	1.35732	0.00141
430	1.35303	0.00516	610	1.35736	0.00159
436	1.35257	0.00535	620	1.35751	0.00179
440	1.35257	0.00535	630	1.35758	0.00188
450	1.35327	0.00469	640	1.35746	0.00227
460	1.35321	0.00446	650	1.35694	0.00331
470	1.35281	0.00466	660	1.35654	0.00411
476	1.35266	0.00474	670	1.35545	0.00564
480	1.35274	0.00470	676	1.35544	0.00593
490	1.35331	0.00423	680	1.35597	0.00563
500	1.35441	0.00315	690	1.35939	0.00264
510	1.35545	0.00208	700	1.36172	0.00082
520	1.35621	0.00132	710	1.36257	0.00028
530	1.35650	0.00094	720	1.36311	0.00012
540	1.35671	0.00083	730	1.36356	0.00005
550	1.35685	0.00079	740	1.36393	0.00005
560	1.35701	0.00080	750	1.36449	0.00001
570	1.35709	0.00095			

Refraction and absorption index of *Chlamydomonas reinhardtii tla1*

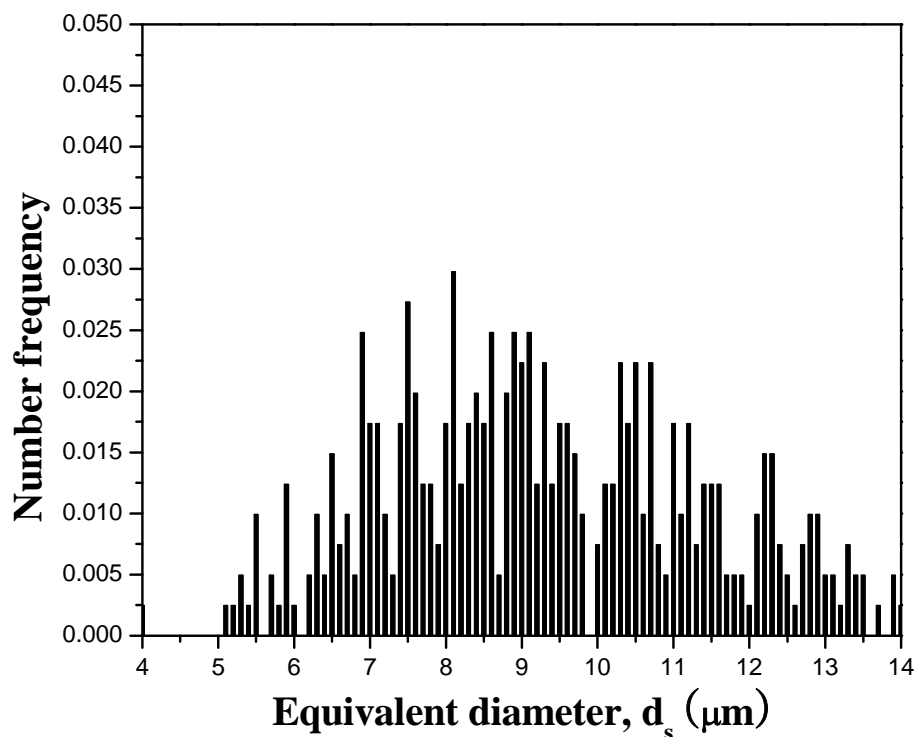


λ (nm)	Refraction index, n_λ	Absorption index, k_λ	λ (nm)	Refraction index, n_λ	Absorption index, k_λ
400	1.35761	0.00200	580	1.35768	0.00058
410	1.35665	0.00244	590	1.35779	0.00067
420	1.35576	0.00282	600	1.35782	0.00073
430	1.35503	0.00317	610	1.35796	0.00084
436	1.35457	0.00330	620	1.35811	0.00095
440	1.35457	0.00327	630	1.35818	0.00099
450	1.35507	0.00278	640	1.35816	0.00120
460	1.35501	0.00256	650	1.35804	0.00173
470	1.35461	0.00266	660	1.35784	0.00221
476	1.35466	0.00267	670	1.35725	0.00314
480	1.35474	0.00264	676	1.35734	0.00330
490	1.35511	0.00230	680	1.35797	0.00311
500	1.35571	0.00167	690	1.36059	0.00143
510	1.35635	0.00107	700	1.36232	0.00043
520	1.35671	0.00066	710	1.36277	0.00015
530	1.35700	0.00049	720	1.36311	0.00005
540	1.35721	0.00040	730	1.36336	0.00002
550	1.35725	0.00041	740	1.36362	0.00001
560	1.35741	0.00041	750	1.36409	0.00001
570	1.35749	0.00049			

Refraction and absorption index of *Chlamydomonas reinhardtii tlaX*



λ (nm)	Refraction index, n_λ	Absorption index, k_λ	λ (nm)	Refraction index, n_λ	Absorption index, k_λ
400	1.35781	0.00325	580	1.35768	0.00097
410	1.35685	0.00397	590	1.35779	0.00109
420	1.35586	0.00465	600	1.35792	0.00119
430	1.35503	0.00530	610	1.35796	0.00134
436	1.35457	0.00557	620	1.35811	0.00152
440	1.35447	0.00556	630	1.35808	0.00159
450	1.35497	0.00463	640	1.35826	0.00193
460	1.35491	0.00429	650	1.35794	0.00280
470	1.35461	0.00445	660	1.35774	0.00358
476	1.35456	0.00448	670	1.35715	0.00515
480	1.35464	0.00441	676	1.35724	0.00543
490	1.35501	0.00385	680	1.35777	0.00514
500	1.35571	0.00281	690	1.36049	0.00234
510	1.35635	0.00181	700	1.36222	0.00076
520	1.35691	0.00114	710	1.36287	0.00025
530	1.35730	0.00083	720	1.36331	0.00015
540	1.35721	0.00071	730	1.36376	0.00008
550	1.35735	0.00068	740	1.36423	0.00004
560	1.35751	0.00069	750	1.36459	0.00002
570	1.35749	0.00082			

Refraction and absorption index of *Chlamydomonas reinhardtii tla1-CW+*

λ (nm)	Refraction index, n_λ	Absorption index, k_λ	λ (nm)	Refraction index, n_λ	Absorption index, k_λ
400	1.35861	0.00196	580	1.35808	0.00041
410	1.35765	0.00240	590	1.35819	0.00045
420	1.35696	0.00281	600	1.35842	0.00047
430	1.35633	0.00317	610	1.35846	0.00059
436	1.35597	0.00328	620	1.35871	0.00073
440	1.35597	0.00322	630	1.35878	0.00075
450	1.35657	0.00241	640	1.35916	0.00064
460	1.35651	0.00199	650	1.35954	0.00079
470	1.35651	0.00173	660	1.35904	0.00162
476	1.35646	0.00162	670	1.35855	0.00271
480	1.35654	0.00162	676	1.35874	0.00302
490	1.35641	0.00168	680	1.35917	0.00297
500	1.35661	0.00140	690	1.36129	0.00136
510	1.35705	0.00090	700	1.36272	0.00039
520	1.35741	0.00055	710	1.36307	0.00011
530	1.35750	0.00039	720	1.36311	0.00007
540	1.35762	0.00031	730	1.36356	0.00002
550	1.35765	0.00029	740	1.36443	0.00001
560	1.35771	0.00030	750	1.36469	0.00002
570	1.35789	0.00035			