

Significant Differences in Nucleotide and Peptide Features Between Chromosomes Suggesting Sequence Non-Randomness Across Chromosomes (Supplementary Materials)

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Figure S1: Average CDS Length by Chromosome (*Sarcophilus harrisii*)

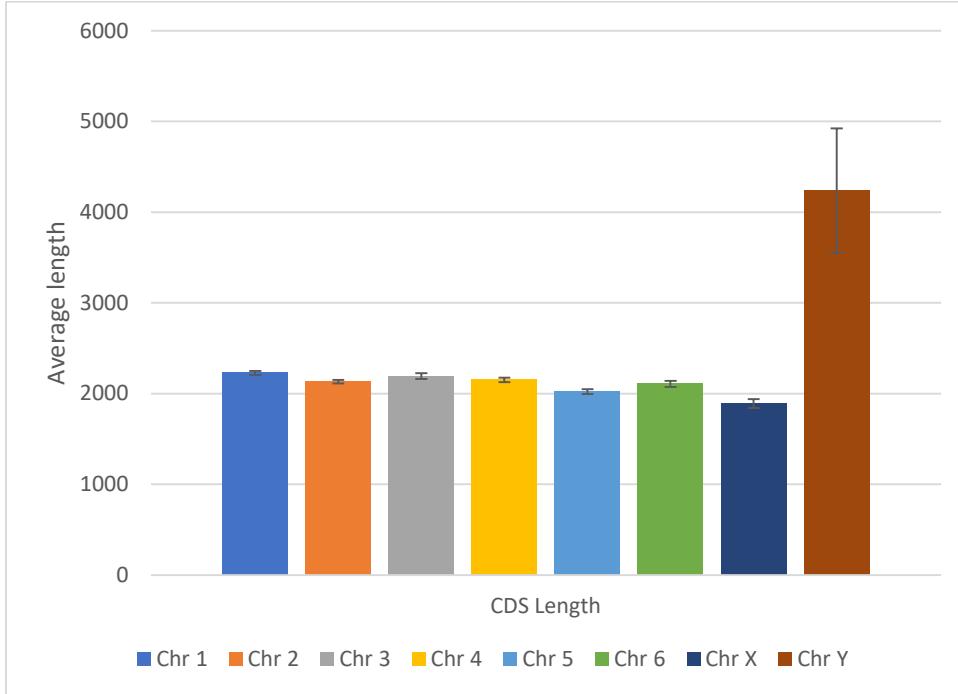


Table S1: Pairwise t-test for CDS Length (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		1.33E-03	3.87E-01	2.55E-02	4.84E-09	3.35E-03	8.62E-10	1.50E-02	
2	3.210		9.12E-02	5.26E-01	8.36E-04	5.32E-01	5.90E-06	1.19E-02	
3	0.865	1.689		2.94E-01	2.96E-05	6.14E-02	2.44E-07	1.39E-02	
4	2.234	0.635	1.049		3.85E-04	2.93E-01	2.62E-06	1.25E-02	
5	5.856	3.341	4.178	3.551		4.76E-02	1.83E-02	9.10E-03	P-value
6	2.934	0.624	1.871	1.052	1.981		2.90E-04	1.12E-02	
X	6.139	4.532	5.166	4.701	2.361	3.626		6.58E-03	
Y	2.432	2.515	2.461	2.498	2.609	2.537	2.722		
T-statistic									

Figure S2: Average %GC, %A and %T by Chromosome (*Sarcophilus harrisii*)

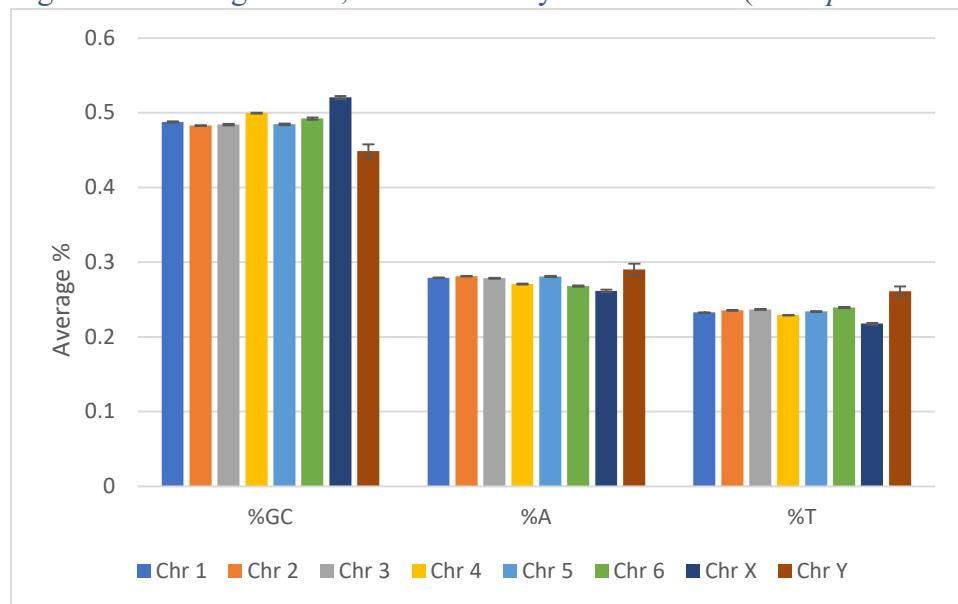


Table S2.1: Pairwise t-test for %GC (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	P-value
1		1.41E-05	5.05E-03	3.83E-24	3.16E-02	5.65E-03	8.43E-41	1.62E-03	
2	4.344		2.99E-01	3.11E-51	2.17E-01	6.35E-09	3.38E-53	3.75E-03	
3	2.804	1.039		4.15E-34	7.63E-01	2.51E-06	1.37E-47	3.00E-03	
4	10.151	15.103	12.204		2.70E-25	1.16E-05	3.96E-18	2.36E-04	
5	2.149	1.234	0.302	10.414		3.57E-05	9.72E-44	2.76E-03	
6	2.768	5.811	4.709	4.387	4.136		9.30E-26	7.26E-04	
X	13.433	15.432	14.571	8.698	13.989	10.552		9.56E-06	
Y	3.154	2.899	2.969	3.679	2.995	3.382	4.447		
	T-statistic								

Table S2.2: Pairwise t-test for %A (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		6.09E-03	5.64E-01	3.07E-25	8.38E-02	2.21E-26	5.60E-25	1.86E-01	
2	2.743		1.92E-03	1.74E-41	6.86E-01	7.30E-38	6.05E-31	2.75E-01	
3	0.577	3.103		2.02E-19	3.45E-02	3.40E-22	5.73E-23	1.69E-01	
4	10.396	13.525	9.023		3.24E-24	7.18E-03	3.85E-08	3.19E-02	
5	1.729	0.404	2.114	10.173		6.30E-27	7.59E-27	2.58E-01	
6	10.651	12.900	9.706	2.689	10.782		3.80E-04	1.70E-02	
X	10.349	11.601	9.893	5.502	10.783	3.556		4.10E-03	
Y	1.321	1.091	1.374	2.147	1.132	2.388	2.876		
	T-statistic								

Table S2.3: Pairwise t-test for %T (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		4.35E-06	4.66E-09	2.34E-08	7.37E-02	3.64E-11	5.14E-31	1.34E-03	
2	4.595		4.70E-02	1.45E-25	8.12E-02	6.95E-05	9.75E-43	2.63E-03	
3	5.862	1.987		9.66E-28	1.64E-03	1.27E-02	8.22E-46	3.65E-03	
4	5.588	10.466	10.936		4.07E-10	5.47E-24	3.88E-19	5.83E-04	
5	1.789	1.744	3.148	6.256		2.40E-06	9.76E-33	1.88E-03	
6	6.623	3.979	2.491	10.123	4.719		3.45E-46	7.11E-03	
X	11.618	13.759	14.282	8.960	11.992	14.415		4.35E-05	
Y	3.208	3.009	2.908	3.441	3.110	2.693	4.103		
	T-statistic								

P-value

Figure S3: Average %G and %C by Chromosome (*Sarcophilus harrisii*)

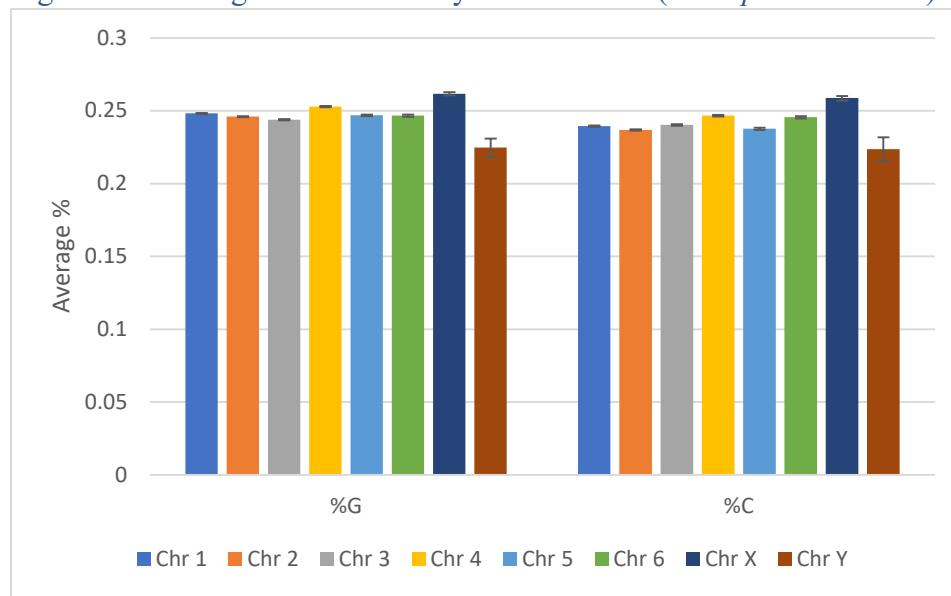


Table S3.1: Pairwise t-test for %G (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	P-value
1		7.29E-05	4.37E-12	3.66E-16	6.85E-02	7.73E-02	1.21E-30	3.59E-03	
2	3.967		2.01E-04	3.71E-36	2.32E-01	4.69E-01	7.44E-41	6.32E-03	
3	6.929	3.719		2.23E-46	6.89E-05	1.77E-03	9.97E-49	1.14E-02	
4	8.157	12.582	14.343		6.70E-17	5.13E-13	4.61E-14	1.07E-03	
5	1.822	1.196	3.981	8.364		8.23E-01	1.82E-32	5.07E-03	
6	1.766	0.725	3.127	7.230	0.224		1.59E-29	5.37E-03	
X	11.544	13.437	14.753	7.554	11.939	11.356		1.26E-04	
Y	2.912	2.731	2.529	3.273	2.804	2.785	3.847		
				4.61E-14					T-statistic

Table S3.2: Pairwise t-test for %C (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		1.61E-04	3.35E-01	2.78E-21	4.95E-02	1.54E-09	2.94E-32	8.12E-02	
2	3.774		6.58E-06	5.35E-42	3.15E-01	7.06E-19	2.18E-41	1.38E-01	
3	0.965	4.508		2.39E-15	7.37E-03	3.56E-07	3.22E-29	6.96E-02	
4	9.483	13.613	7.927		3.15E-22	3.11E-01	5.42E-14	1.84E-02	
5	1.965	1.005	2.680	9.714		4.45E-12	9.13E-35	1.16E-01	
6	6.044	8.886	5.094	1.013	6.932		4.72E-14	2.30E-02	
X	11.864	13.528	11.258	7.533	12.383	7.561		1.53E-03	
Y	1.744	1.485	1.815	2.357	1.571	2.274	3.177		
									T-statistic
									P-value

Figure S4: Average Isoelectric point (pI) by Chromosome (*Sarcophilus harrisii*)

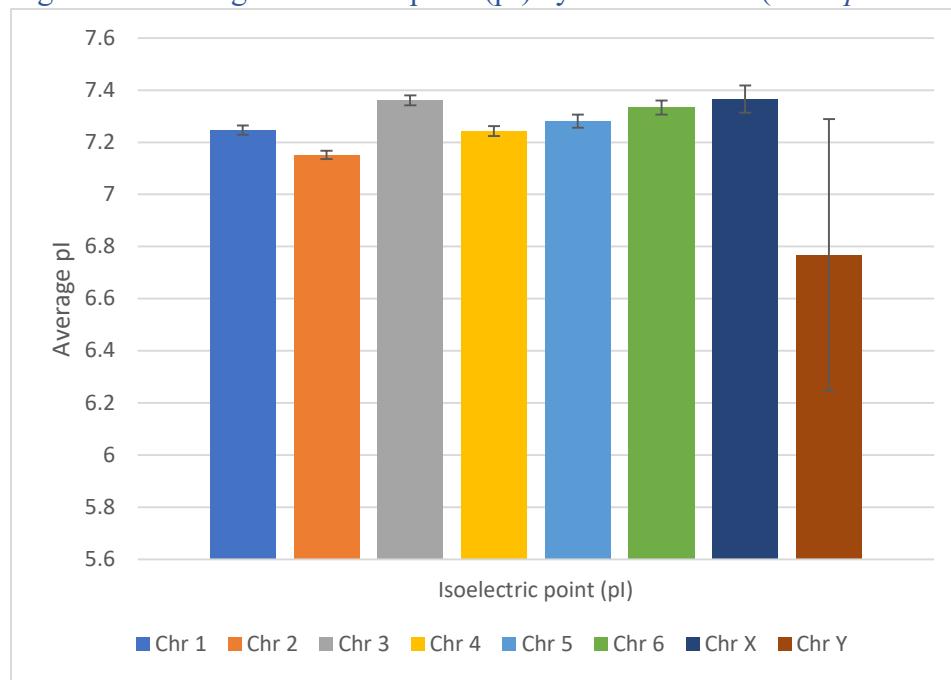


Table S4: Pairwise t-test for pI (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		6.72E-05	1.03E-05	8.82E-01	2.53E-01	7.12E-03	2.92E-02	3.80E-01	
2	3.987		5.85E-17	2.62E-04	1.23E-05	7.78E-09	8.20E-05	4.79E-01	
3	4.411	8.376		1.20E-05	1.14E-02	4.03E-01	9.20E-01	2.82E-01	
4	0.148	3.651	4.379		2.18E-01	6.20E-03	2.58E-02	3.84E-01	
5	1.142	4.373	2.530	1.231		1.59E-01	1.41E-01	3.48E-01	P-value
6	2.692	5.777	0.835	2.738	1.410		5.72E-01	3.04E-01	
X	2.181	3.940	0.100	2.230	1.472	0.566		2.79E-01	
Y	0.878	0.709	1.076	0.871	0.939	1.028	1.083		
									T-statistic

Figure S5: Average Aromaticity and Hydropathy (GRAVY) by Chromosome (*Sarcophilus harrisii*)

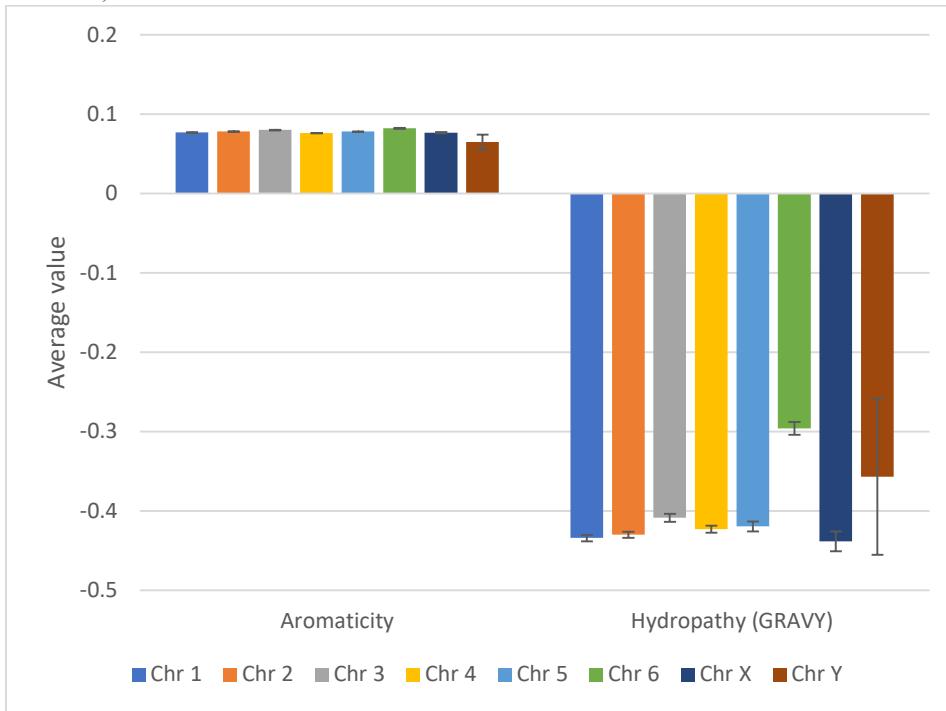


Table S5.1: Pairwise t-test for Aromaticity (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	P-value
1		5.58E-03	5.83E-12	3.31E-02	7.00E-02	2.30E-18	7.14E-01	2.23E-01	
2	2.772		5.24E-06	1.45E-06	7.71E-01	2.52E-12	1.16E-01	1.87E-01	
3	6.888	4.556		1.19E-17	1.21E-04	6.76E-04	2.78E-04	1.35E-01	
4	2.131	4.820	8.563		5.52E-04	1.13E-23	5.30E-01	2.58E-01	
5	1.812	0.291	3.845	3.455		3.99E-10	1.88E-01	1.92E-01	
6	8.754	7.008	3.400	10.051	6.262		6.10E-08	9.48E-02	
X	0.366	1.571	3.637	0.628	1.318	5.424		2.37E-01	
Y	1.218	1.318	1.493	1.132	1.304	1.671	1.184		
									T-statistic

Table S5.2: Pairwise t-test for Hydropathy (GRAVY) (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		4.47E-01	7.81E-05	6.59E-02	4.96E-02	3.70E-50	7.53E-01	4.51E-01	
2	0.761		6.96E-04	2.40E-01	1.56E-01	1.57E-48	5.18E-01	4.76E-01	
3	3.951	3.392		3.15E-02	1.62E-01	3.40E-31	2.59E-02	6.13E-01	
4	1.839	1.176	2.151		6.59E-01	2.42E-41	2.45E-01	5.18E-01	
5	1.963	1.418	1.400	0.441		4.79E-33	1.77E-01	5.40E-01	
6	14.957	14.696	11.649	13.520	12.028		2.74E-21	5.49E-01	
X	0.315	0.647	2.228	1.162	1.349	9.516		4.31E-01	
Y	0.753	0.712	0.506	0.646	0.613	0.599	0.788		
									T-statistic
									P-value

Figure S6: Average Secondary Structure Proportions – Helix, Turn and Sheet Fractions by Chromosome (*Sarcophilus harrisii*)

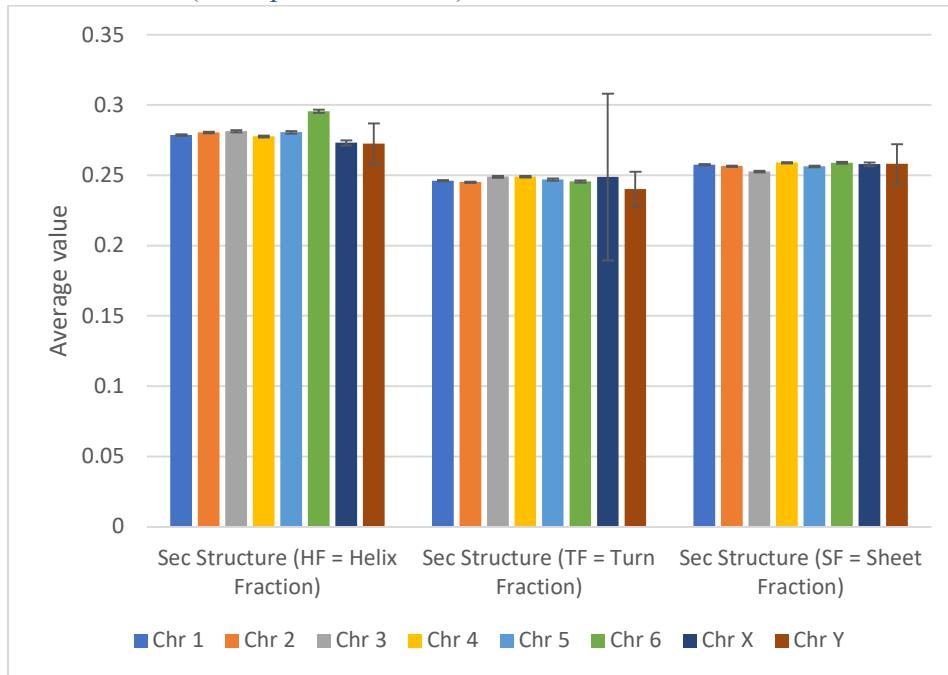


Table S6.1: Pairwise t-test for Secondary Structure Proportions – Helix Fraction (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	P-value
1		2.69E-02	4.68E-03	2.89E-01	7.80E-02	1.33E-36	4.51E-03	6.81E-01	
2	2.213		3.53E-01	1.36E-03	9.24E-01	2.24E-30	1.27E-04	5.93E-01	
3	2.828	0.928		2.24E-04	5.20E-01	2.52E-24	3.19E-05	5.55E-01	
4	1.060	3.204	3.691		1.05E-02	3.98E-39	2.08E-02	7.29E-01	
5	1.763	0.095	0.643	2.560		2.57E-23	2.80E-04	5.89E-01	
6	12.675	11.481	10.198	13.133	9.978		2.04E-24	1.44E-01	
X	2.840	3.834	4.162	2.312	3.635	10.251		9.63E-01	
Y	0.412	0.534	0.591	0.347	0.541	1.460	0.046		
	T-statistic								

Table S6.2: Pairwise t-test for Secondary Structure Proportions – Turn Fraction (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		1.49E-01	6.13E-04	3.20E-04	4.01E-01	5.62E-01	1.24E-01	6.44E-01	
2	1.444		9.00E-07	3.80E-07	4.87E-02	5.88E-01	2.96E-02	7.03E-01	
3	3.426	4.914		8.52E-01	5.38E-02	7.91E-04	9.29E-01	4.99E-01	
4	3.599	5.080	0.187		3.78E-02	4.63E-04	8.55E-01	4.92E-01	
5	0.840	1.971	1.929	2.078		2.25E-01	3.19E-01	5.99E-01	
6	0.579	0.542	3.357	3.502	1.213		7.73E-02	6.75E-01	
X	1.540	2.176	0.090	0.183	0.996	1.767		5.09E-01	
Y	0.462	0.381	0.675	0.688	0.525	0.419	0.660		
									T-statistic

Table S6.3: Pairwise t-test for Secondary Structure Proportions – Sheet Fraction (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		7.90E-02	2.06E-13	2.68E-02	1.34E-01	9.48E-02	8.25E-01	9.68E-01	
2	1.757		2.62E-09	8.13E-05	8.84E-01	2.35E-03	3.25E-01	9.10E-01	
3	7.350	5.957		1.25E-19	4.95E-06	1.37E-13	2.64E-04	7.06E-01	
4	2.215	3.942	9.076		1.14E-03	8.91E-01	4.12E-01	9.50E-01	
5	1.498	0.146	4.569	3.254		6.99E-03	3.16E-01	9.03E-01	
6	1.671	3.042	7.407	0.137	2.698		4.83E-01	9.57E-01	
X	0.221	0.984	3.650	0.820	1.002	0.701		9.85E-01	
Y	0.040	0.114	0.378	0.062	0.121	0.054	0.018		
									T-statistic

Figure S7: Average Extinction Coefficient – Reduced or Non-reduced Cysteine, and Molecular Weight by Chromosome (*Sarcophilus harrisii*)

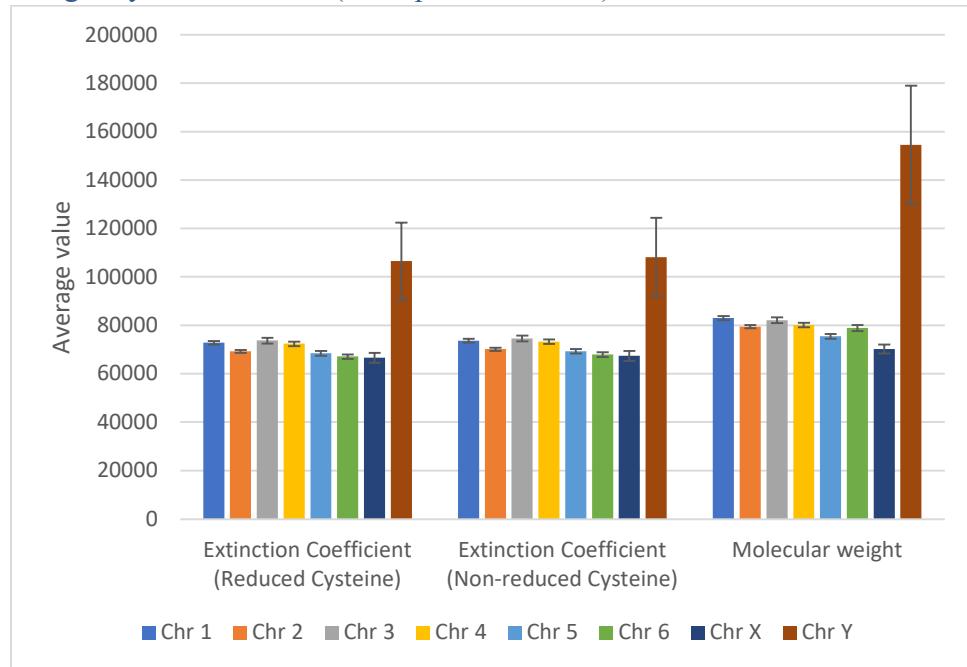


Table S7.1: Pairwise t-test for Extinction Coefficient – Reduced Cysteine (*Sarcophilus harrisii*)
T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	P-value
1		2.54E-04	5.11E-01	7.41E-01	3.48E-04	2.56E-06	4.78E-03	6.13E-02	
2	3.659		6.34E-04	4.02E-03	4.84E-01	5.44E-02	2.18E-01	4.21E-02	
3	0.658	3.417		3.77E-01	4.46E-04	9.52E-06	2.64E-03	6.76E-02	
4	0.331	2.877	0.883		2.74E-03	5.43E-05	1.01E-02	5.89E-02	
5	3.577	0.699	3.512	2.996		3.03E-01	4.12E-01	3.88E-02	
6	4.706	1.923	4.430	4.038	1.030		8.33E-01	3.35E-02	
X	2.822	1.231	3.008	2.574	0.820	0.210		3.21E-02	
Y	1.872	2.033	1.828	1.889	2.067	2.127	2.145		
									T-statistic

Table S7.2: Pairwise t-test for Extinction Coefficient – Non-reduced Cysteine (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		2.87E-04	5.05E-01	7.18E-01	3.38E-04	2.65E-06	4.29E-03	6.02E-02	
2	3.627		6.61E-04	4.81E-03	4.61E-01	5.21E-02	2.02E-01	4.15E-02	
3	0.666	3.406		3.60E-01	4.18E-04	9.27E-06	2.33E-03	6.64E-02	
4	0.361	2.820	0.916		2.89E-03	6.18E-05	9.56E-03	5.76E-02	
5	3.585	0.738	3.529	2.979		3.11E-01	4.01E-01	3.81E-02	
6	4.699	1.943	4.435	4.007	1.012		8.12E-01	3.30E-02	
X	2.857	1.275	3.045	2.592	0.840	0.238		3.15E-02	
Y	1.880	2.039	1.836	1.899	2.074	2.133	2.154		
									T-statistic

Table S7.3: Pairwise t-test for Molecular Weight (*Sarcophilus harrisii*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	X	Y	
1		1.49E-03	5.42E-01	2.43E-02	5.63E-09	6.17E-03	5.07E-10	1.51E-02	
2	3.178		5.91E-02	5.78E-01	8.31E-04	6.53E-01	3.43E-06	1.18E-02	
3	0.610	1.888		1.97E-01	1.52E-05	5.95E-02	7.82E-08	1.42E-02	
4	2.253	0.557	1.291		5.30E-04	4.05E-01	2.00E-06	1.24E-02	
5	5.831	3.343	4.327	3.466		3.26E-02	1.32E-02	8.94E-03	
6	2.739	0.450	1.885	0.832	2.137		1.23E-04	1.13E-02	
X	6.223	4.646	5.375	4.756	2.478	3.843		6.24E-03	
Y	2.430	2.517	2.453	2.501	2.616	2.534	2.740		
									T-statistic

Figure S8: Average CDS Length by Chromosome (*Plasmodium falciparum*)

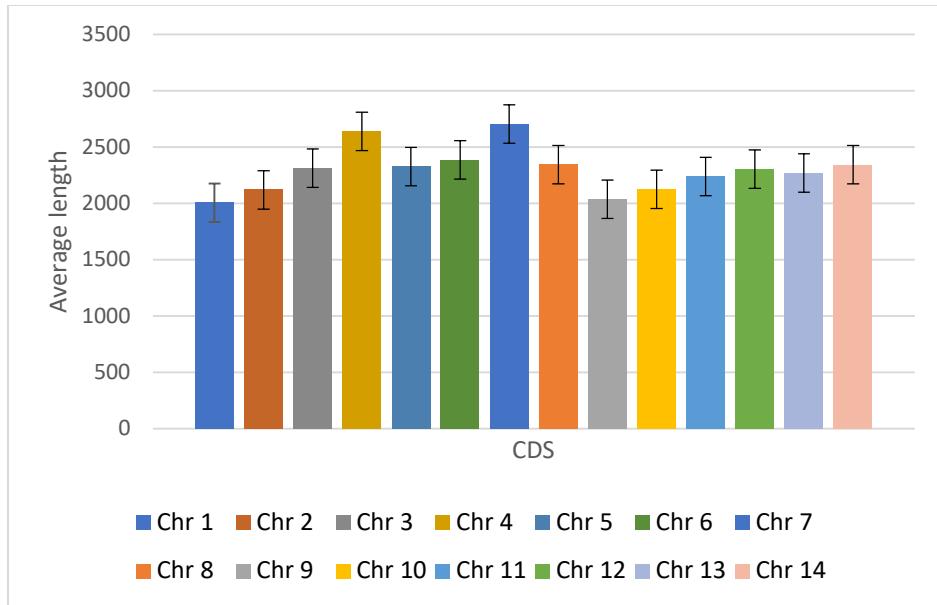


Table S8: Pairwise t-test for CDS Length (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1		5.27E-01	4.92E-01	7.18E-02	1.44E-01	2.07E-01	6.92E-03	1.46E-02	3.75E-01	4.94E-01	8.39E-01	1.41E-01	2.93E-01	5.04E-01	
2	0.633		3.40E-01	4.08E-02	2.18E-01	2.77E-01	4.78E-02	2.13E-01	8.76E-01	6.53E-01	9.56E-01	4.55E-01	4.30E-01	4.87E-01	
3	0.688	0.955		1.98E-01	7.43E-01	9.01E-01	1.25E-01	8.75E-01	4.64E-01	5.31E-01	2.76E-01	8.94E-01	8.98E-01	8.11E-01	
4	1.805	2.051	1.289		4.73E-01	2.43E-01	7.99E-01	2.68E-01	5.51E-02	8.10E-02	2.72E-02	1.88E-01	3.68E-01	1.96E-01	
5	1.463	1.232	0.328	0.718		8.69E-01	1.26E-01	9.13E-01	3.32E-01	4.27E-01	2.57E-01	8.24E-01	9.03E-01	6.65E-01	
6	1.265	1.087	0.124	1.170	0.165		1.85E-01	8.53E-01	2.36E-01	2.60E-01	1.35E-01	8.86E-01	8.45E-01	8.99E-01	
7	2.714	1.984	1.537	0.255	1.534	1.326		1.76E-01	7.93E-03	1.92E-02	2.37E-03	1.62E-01	1.35E-01	4.55E-02	P-value
8	2.452	1.248	0.158	1.108	0.109	0.185	1.354		3.04E-01	3.24E-01	1.66E-01	9.46E-01	5.56E-01	3.91E-01	
9	0.887	0.156	0.732	1.922	0.971	1.186	2.663	1.029		6.56E-01	3.35E-01	1.67E-02	2.44E-01	5.97E-02	
10	0.685	0.450	0.626	1.748	0.795	1.128	2.346	0.987	0.445		5.84E-01	4.11E-02	3.62E-01	9.41E-02	
11	0.203	0.055	1.090	2.213	1.135	1.496	3.050	1.385	0.964	0.547		4.47E-01	7.71E-01	3.30E-01	
12	1.473	0.748	0.133	1.318	0.222	0.143	1.401	0.068	2.397	2.046	0.760		9.92E-01	4.32E-01	
13	1.264	0.896	0.218	1.203	0.170	0.166	1.113	0.030	1.427	0.663	0.358	0.178		5.23E-01	
14	0.422	0.401	0.337	1.554	0.331	0.444	2.009	0.504	1.819	1.191	0.874	0.491	0.566		

T-statistic

Figure S9: Average %GC, %A and %T by Chromosome (*Plasmodium falciparum*)

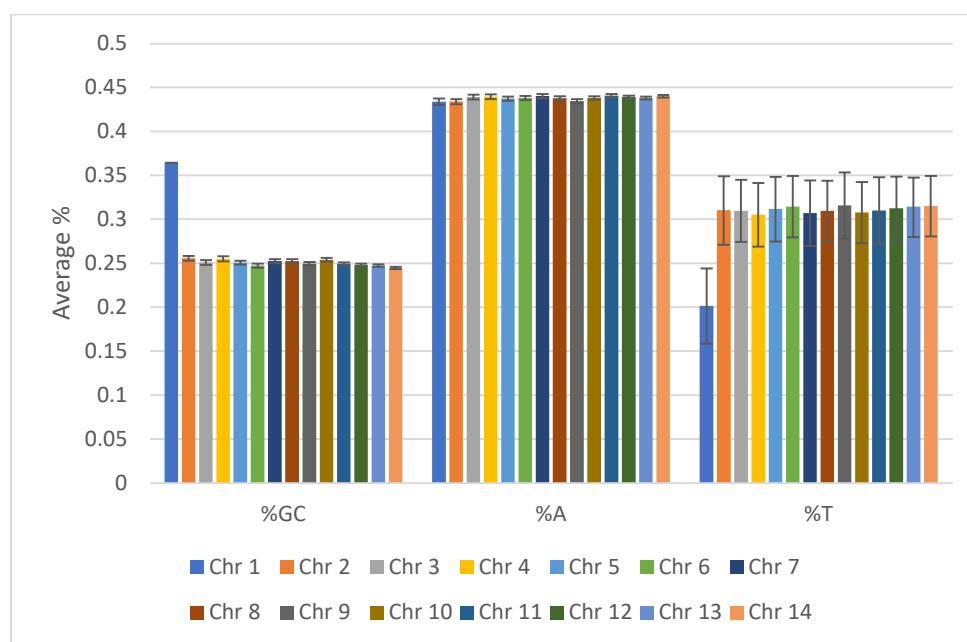


Table S9.1.: Pairwise t-test for %GC (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1.91E-61	1.98E-64	9.97E-58	2.81E-68	2.11E-66	8.15E-59	1.49E-62	5.50E-64	2.21E-63	4.52E-58	5.78E-67	2.54E-62	3.28E-62	
20.346	1.72E-01	7.16E-01	1.81E-01	8.22E-03	4.63E-01	3.26E-01	4.78E-02	1.82E-01	6.89E-01	7.80E-02	1.37E-02	6.14E-02		
20.795	1.368	3.01E-01	9.48E-01	2.48E-01	9.22E-01	9.32E-01	4.81E-01	6.95E-01	4.10E-01	4.96E-01	2.12E-01	3.35E-01		
19.264	0.364	1.036	2.61E-01	2.33E-02	3.77E-01	4.05E-01	8.89E-02	1.98E-01	7.86E-01	8.70E-02	4.28E-02	6.95E-02		
20.924	1.340	0.065	1.125		7.88E-02	6.16E-01	9.88E-01	4.81E-01	9.01E-01	6.27E-01	1.48E-01	1.33E-01	1.04E-01	
20.450	2.653	1.157	2.275	1.760		1.37E-01	1.41E-01	9.15E-01	3.50E-01	1.38E-01	6.32E-01	8.25E-01	5.77E-01	
19.007	0.735	0.098	0.893	0.501	1.490		3.57E-01	4.24E-01	5.62E-01	7.78E-01	4.85E-02	3.91E-02	3.98E-02	
19.634	0.983	0.085	0.833	0.015	1.475	0.922		1.63E-01	5.00E-01	9.57E-01	4.31E-02	8.32E-02	4.05E-02	
19.515	1.985	0.706	1.709	0.706	0.106	0.799	1.398		4.84E-01	9.41E-01	1.83E-01	2.82E-01	1.64E-01	
19.254	1.335	0.393	1.289	0.124	0.936	0.581	0.674	0.700		6.22E-02	8.04E-03	1.05E-02	1.62E-02	
17.919	0.400	0.824	0.271	0.486	1.485	0.282	0.054	0.074	1.867		2.44E-01	2.81E-01	7.56E-02	
19.431	1.765	0.681	1.714	1.448	0.479	1.976	2.026	1.334	2.656	1.165		3.45E-01	9.55E-02	
18.158	2.469	1.248	2.027	1.504	0.221	2.066	1.734	1.077	2.564	1.079	0.944		9.45E-02	
18.007	1.873	0.964	1.814	1.626	0.557	2.058	2.051	1.394	3.159	1.778	1.670	1.671		

T-statistic

Pvalue

Table S9.2: Pairwise t-test for %A (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	P-value														T-statistic
1	9.92E-01	4.56E-01	1.23E-01	7.54E-01	3.10E-01	1.44E-01	4.70E-01	5.12E-01	6.44E-01	4.52E-01	5.99E-01	7.28E-01	3.13E-01		
2	0.010	2.25E-01	1.74E-01	5.56E-01	1.83E-01	8.97E-02	3.10E-01	6.05E-01	3.41E-01	8.01E-01	4.67E-01	2.70E-01	3.45E-02		
3	0.746	1.215	6.96E-01	6.76E-01	8.06E-01	3.64E-01	9.54E-01	5.73E-01	7.00E-01	4.99E-01	9.75E-01	9.77E-01	1.55E-01		
4	1.548	1.361	0.390		4.07E-01	8.74E-01	7.48E-01	7.36E-01	4.15E-01	9.44E-01	3.26E-01	8.21E-01	7.11E-01	3.39E-01	
5	0.314	0.589	0.418	0.830		7.85E-01	3.12E-01	8.17E-01	9.02E-01	2.91E-01	7.06E-01	2.52E-01	5.75E-01	6.54E-02	
6	1.017	1.332	0.246	0.159	0.273		4.65E-01	9.59E-01	9.95E-01	4.46E-01	9.65E-01	4.29E-01	6.19E-01	1.57E-01	
7	1.462	1.700	0.909	0.321	1.012	0.730		6.76E-01	3.70E-01	9.59E-01	5.50E-01	9.94E-01	9.40E-01	4.10E-01	
8	0.723	1.017	0.058	0.338	0.231	0.051	0.417		9.97E-01	4.32E-01	9.98E-01	3.23E-01	6.26E-01	1.34E-01	
9	0.656	0.517	0.564	0.817	0.123	0.036	0.297	0.003		2.79E-01	1.71E-01	2.35E-01	1.26E-01	4.85E-02	
10	0.462	0.953	0.385	0.070	1.057	0.762	0.051	0.786	1.082		3.91E-01	6.08E-01	4.63E-01	1.37E-01	
11	0.752	0.252	0.676	0.983	0.377	0.044	0.398	0.003	1.370	0.358		8.50E-01	9.31E-01	4.85E-01	
12	0.556	0.728	0.032	0.227	1.146	0.791	0.008	0.989	1.189	0.513	0.190		7.90E-01	2.29E-01	
13	0.349	1.104	0.029	0.370	0.561	0.497	0.076	0.488	1.530	0.734	0.086	0.266		1.43E-01	
14	1.010	2.117	1.422	0.956	1.844	1.417	0.325	1.499	1.975	1.490	0.699	1.204	1.466		

Table S9.3: Pairwise t-test for %T (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	P-value
1	5.34E-63	6.84E-64	2.75E-60	0.00	6.25E-68	8.37E-57	4.89E-65	2.43E-60	1.11E-64	3.09E-61	3.54E-59	3.11E-67	1.62E-64		
2	20.77	8.74E-01	1.90E-01	0.94	4.19E-01	2.67E-01	6.57E-01	2.69E-02	9.13E-01	9.61E-01	4.54E-01	2.18E-01	8.97E-01		
3	20.667	0.159	1.69E-01	0.60	2.67E-01	3.73E-01	8.43E-01	2.37E-02	6.85E-01	9.91E-01	2.62E-01	1.97E-01	9.96E-01		
4	19.876	1.334	1.379	0.06	1.02E-02	7.26E-01	1.80E-01	2.55E-04	8.75E-02	1.60E-01	1.69E-02	6.15E-03	1.37E-01		
5	19.831	0.076	0.522	1.867	1.91E-01	1.31E-01	6.20E-01	1.72E-01	4.36E-01	4.19E-01	5.76E-01	3.81E-01	9.60E-01		
6	20.780	0.869	1.110	2.578	1.308	1.22E-02	8.18E-02	6.51E-01	4.70E-02	1.08E-01	7.21E-01	9.47E-01	3.59E-01		
7	18.558	1.122	0.891	0.350	1.510	2.515	2.63E-01	5.46E-03	5.56E-01	4.77E-01	4.04E-02	2.59E-02	1.27E-01		
8	20.172	0.445	0.198	1.342	0.495	1.743	1.121	2.49E-02	8.86E-01	9.47E-01	1.71E-01	9.77E-02	4.19E-01		
9	20.604	2.218	2.268	3.679	1.367	0.453	2.788	2.248	3.62E-03	1.05E-01	4.47E-01	2.39E-01	3.23E-01		
10	19.514	0.109	0.406	1.712	0.779	1.990	0.589	0.144	2.918	1.96E-01	1.38E-02	3.88E-02	1.55E-02		
11	18.533	0.049	0.011	1.406	0.808	1.610	0.712	0.067	1.623	1.295		1.61E-01	1.29E-01	1.48E-01	
12	17.972	0.750	1.121	2.394	0.560	0.358	2.053	1.370	0.761	2.468	1.402		5.16E-01	6.84E-01	
13	19.017	1.231	1.291	2.746	0.877	0.067	2.232	1.657	1.178	2.069	1.519	0.650		7.84E-01	
14	18.404	0.130	0.005	1.489	0.050	0.919	1.529	0.809	0.988	2.423	1.449	0.408	0.274		

Figure S10: Average %G and %C by Chromosome (*Plasmodium falciparum*)

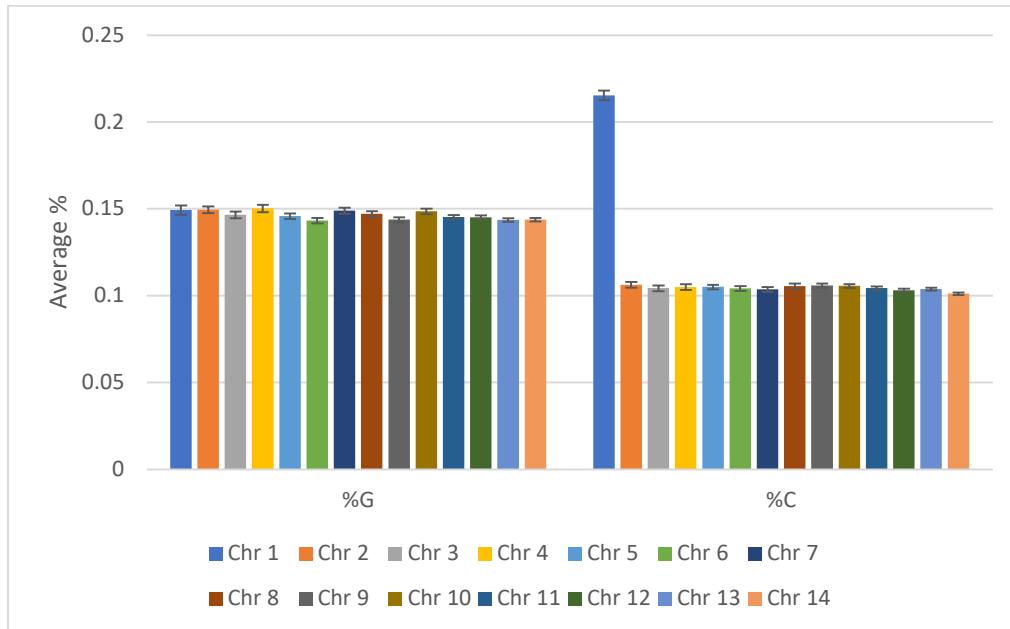


Table S10.1: Pairwise t-test for %G (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	7.89E-01	3.88E-01	8.82E-01	3.45E-01	1.71E-01	4.36E-01	4.48E-01	1.12E-01	5.09E-01	9.33E-01	5.64E-01	1.16E-01	4.36E-01	
2	0.268	1.76E-01	9.42E-01	2.42E-01	5.75E-03	7.32E-01	3.55E-01	7.28E-03	2.03E-01	4.97E-01	1.29E-01	7.20E-03	1.53E-01	
3	0.871	1.354	1.88E-01	9.66E-01	1.53E-01	6.57E-01	9.32E-01	1.73E-01	7.14E-01	7.13E-01	6.10E-01	1.12E-01	4.93E-01	
4	0.149	0.073	1.318	1.74E-01	4.05E-03	3.94E-01	1.89E-01	6.88E-03	1.18E-01	3.81E-01	5.82E-02	6.08E-03	6.07E-02	
5	0.944	1.172	0.043	1.363	9.87E-02	1.79E-01	8.86E-01	2.27E-01	8.33E-01	6.63E-01	3.60E-01	1.64E-01	4.62E-01	
6	1.370	2.773	1.431	2.886	1.653	1.32E-02	9.24E-02	8.30E-01	1.50E-01	9.14E-02	9.09E-01	9.54E-01	6.93E-01	
7	0.780	0.342	0.444	0.853	1.346	2.485	1.11E-01	2.94E-02	3.12E-01	5.24E-01	1.96E-02	4.92E-03	4.05E-02	
8	0.760	0.926	0.086	1.314	0.144	1.685	1.597	5.22E-02	7.88E-01	1.00E+00	1.20E-01	7.91E-02	1.89E-01	
9	1.593	2.693	1.365	2.716	1.208	0.215	2.182	1.945	9.45E-02	4.55E-01	8.39E-01	6.93E-01	9.51E-01	
10	0.660	1.275	0.367	1.564	0.213	1.440	1.012	0.276	1.674	8.47E-02	2.61E-02	5.40E-03	3.26E-02	
11	0.085	0.679	0.368	0.877	0.425	1.690	0.637	0.000	0.747	1.726	6.04E-01	2.39E-01	5.49E-01	
12	0.577	1.521	0.510	1.897	0.915	0.115	2.338	1.557	0.204	2.228	0.519	1.79E-01	4.92E-01	
13	1.575	2.693	1.591	2.750	1.393	0.057	2.818	1.758	0.395	2.787	1.179	1.345	7.10E-01	
14	0.780	1.431	0.686	1.878	0.736	0.395	2.051	1.313	0.061	2.139	0.599	0.637	0.372	

T-statistic

P-value

26

Table S10.2: Pairwise t-test for %C (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1.34E-89	7.63E-91	3.70E-90	4.22E-94	8.82E-91	1.59E-90	4.43E-92	2.22E-91	1.66E-90	2.30E-89	7.08E-94	3.44E-89	1.35E-92	
2	27.453	4.69E-01	4.58E-01	3.48E-01	1.70E-01	3.88E-01	5.36E-01	7.18E-01	4.42E-01	9.00E-01	2.36E-01	2.70E-01	1.13E-01	
3	27.225	0.725	8.15E-01	9.49E-01	7.32E-01	7.08E-01	7.87E-01	7.03E-01	8.11E-01	3.15E-01	5.68E-01	7.68E-01	3.69E-01	
4	27.194	0.743	0.235	7.29E-01	5.28E-01	5.71E-01	8.94E-01	8.71E-01	7.21E-01	5.50E-01	4.80E-01	7.44E-01	3.08E-01	
5	26.589	0.899	0.064	0.347	2.58E-01	4.45E-01	8.87E-01	8.57E-01	6.15E-01	7.44E-01	1.52E-01	3.20E-01	4.38E-02	
6	25.731	1.374	0.342	0.631	1.131	7.66E-01	5.09E-01	6.62E-01	9.24E-01	5.34E-01	3.27E-01	7.48E-01	1.49E-01	
7	26.113	0.869	0.375	0.567	0.768	0.300	7.26E-01	2.25E-01	7.98E-01	2.08E-01	5.64E-01	7.73E-01	2.35E-01	
8	26.046	0.620	0.271	0.133	0.142	0.660	0.350	8.08E-01	3.91E-01	9.26E-01	9.51E-02	3.16E-01	3.90E-02	
9	25.062	0.361	0.381	0.163	0.180	0.437	1.215	0.243	3.71E-01	2.98E-01	2.81E-02	1.37E-01	7.41E-03	
10	604.147	0.769	0.239	0.357	0.504	0.095	0.256	0.859	0.896	2.63E-01	5.82E-02	2.80E-01	3.16E-03	
11	89.652	0.125	1.005	0.599	0.326	0.622	1.275	0.092	1.042	1.121	1.53E-01	6.29E-01	1.34E-02	
12	89.589	1.186	0.572	0.707	1.432	0.982	0.578	1.671	2.199	1.887	1.431	9.59E-01	2.77E-02	
13	22.705	1.105	0.295	0.326	0.995	0.322	0.289	1.002	1.487	1.080	0.483	0.051	1.03E-02	
14	23.002	1.586	0.898	1.020	2.019	1.444	1.188	2.066	2.682	2.958	2.476	2.204	2.570	

T-statistic

P-value

Figure S11: Average Isoelectric point (pI) by Chromosome (*Plasmodium falciparum*)

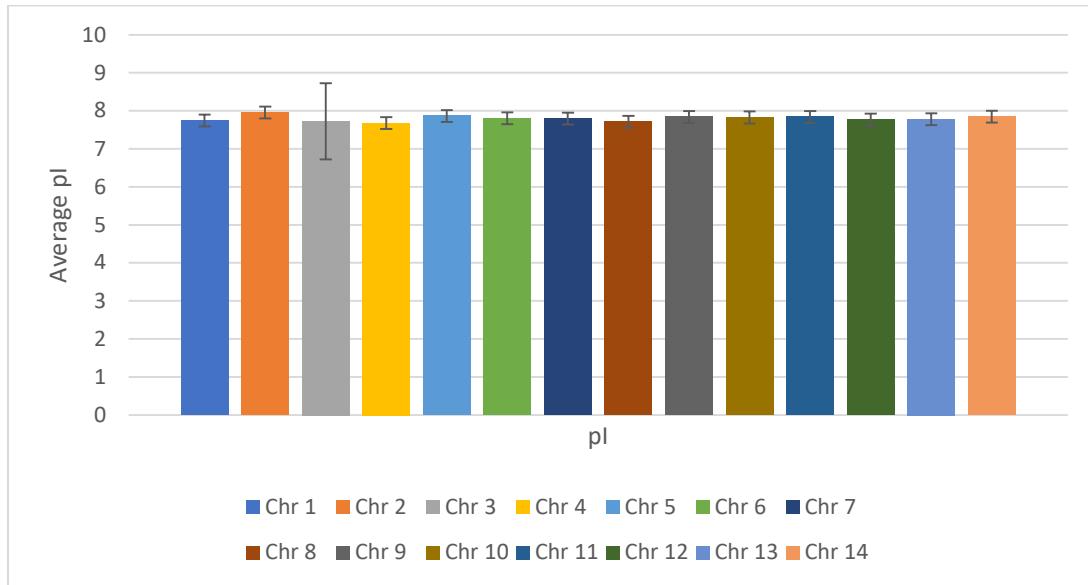


Table S11: Pairwise t-test for pI (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	2	3	4	5	6	7	8	9	10	11	12	13	14
	4.23E-01	4.78E-01	9.95E-01	6.90E-01	8.68E-01	7.09E-01	2.60E-01	5.24E-01	2.14E-01	4.56E-01	9.53E-01	4.05E-01	3.10E-01
0.801	1.22E-01	1.10E-01	6.18E-01	3.02E-01	3.79E-01	1.12E-01	3.57E-01	5.76E-01	2.45E-01	4.20E-02	3.55E-01	9.02E-01	
0.710	1.54E-01	7.26E-01	3.33E-01	5.73E-01	6.21E-01	8.13E-01	5.30E-01	3.08E-01	8.05E-01	4.46E-01	5.58E-01	7.26E-02	
0.007	1.603	0.351	2.01E-01	4.21E-01	4.09E-01	8.28E-01	3.03E-01	1.79E-01	7.20E-01	7.61E-01	3.63E-01	3.40E-02	
0.399	0.498	0.968	1.281	6.33E-01	6.62E-01	2.43E-01	9.00E-01	7.80E-01	4.60E-01	2.50E-01	6.63E-01	5.56E-01	
0.166	1.032	0.563	0.806	0.478	9.14E-01	4.74E-01	7.44E-01	5.79E-01	6.11E-01	5.59E-01	9.29E-01	3.97E-01	
0.373	0.880	0.494	0.825	0.437	0.108		6.47E-01	9.17E-01	5.48E-01	7.96E-01	4.77E-01	9.87E-01	4.41E-01
1.128	1.592	0.237	0.217	1.168	0.716	0.459		2.98E-01	1.99E-01	8.69E-01	9.99E-01	5.27E-01	1.13E-01
0.630	0.922	0.628	1.031	0.126	0.326	0.105	1.041		7.28E-01	8.46E-01	4.86E-01	4.46E-01	4.53E-01
1.244	0.559	1.020	1.345	0.279	0.555	0.600	1.287	0.348		9.58E-01	4.61E-01	8.03E-01	6.36E-01
0.746	1.164	0.247	0.358	0.739	0.509	0.259	0.165	0.194	0.053		4.47E-01	4.85E-01	5.62E-01
0.059	2.037	0.763	0.305	1.151	0.585	0.711	0.002	0.697	0.737	0.761		9.93E-01	3.61E-01
0.834	0.926	0.587	0.910	0.436	0.089	0.016	0.634	0.763	0.250	0.699	0.009		3.84E-01
1.017	0.124	1.797	2.123	0.589	0.847	0.771	1.585	0.751	0.474	0.580	0.914	0.872	

T-statistic

P-value

Figure S12: Average Aromaticity and Hydropathy (GRAVY) by Chromosome (*Plasmodium falciparum*)

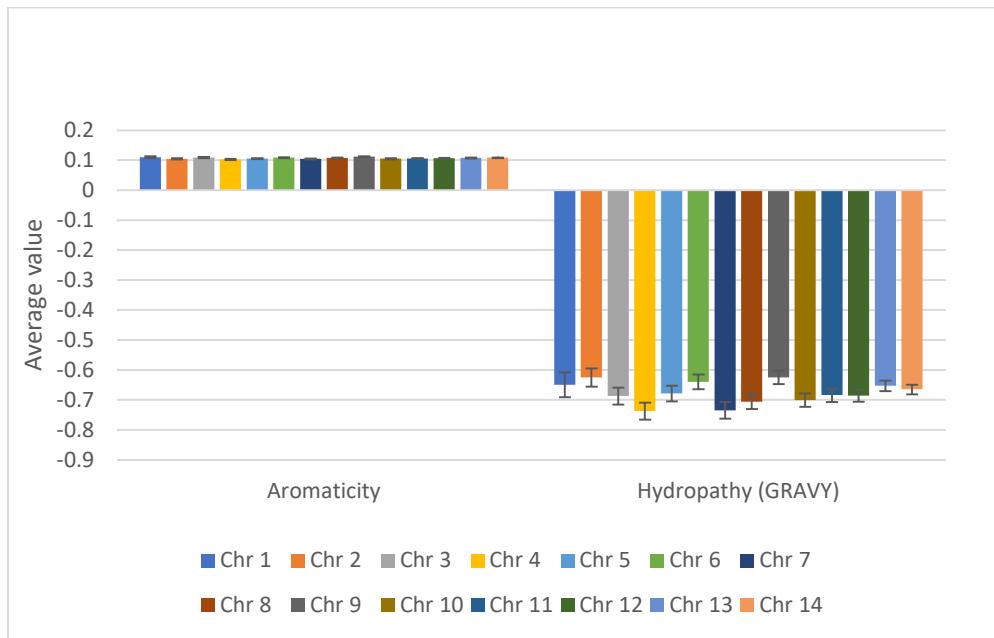


Table S12.1: Pairwise t-test for Aromaticity (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	P-value
3.90E-01	1.00E+00	2.11E-02	2.73E-01	5.58E-01	3.17E-02	7.88E-01	9.93E-01	5.11E-01	1.38E-01	2.99E-01	3.15E-01	3.15E-01	6.05E-01		
0.861	1.01E-01	5.48E-01	9.56E-01	3.73E-01	9.49E-01	3.06E-01	8.81E-02	5.10E-01	7.86E-01	3.61E-01	6.09E-01	9.66E-01			
0.000	1.643		2.57E-02	2.31E-01	8.77E-01	2.13E-01	9.82E-01	6.87E-01	8.55E-01	2.15E-01	6.66E-01	3.39E-01	1.52E-01		
2.305	0.601	2.238		2.15E-01	4.02E-02	3.72E-01	2.48E-02	9.82E-03	9.19E-02	3.48E-01	7.72E-02	1.94E-01	7.72E-01	3.85E-01	
1.098	0.055	1.199	1.241		1.63E-01	6.46E-01	3.76E-01	1.02E-01	3.74E-01	9.73E-01	5.87E-01	7.73E-01	8.27E-01		
0.587	0.892	0.154	2.057		1.397		1.31E-01	5.84E-01	5.15E-01	8.44E-01	2.39E-01	7.21E-01	4.07E-01	3.99E-01	
2.155	0.064	1.247	0.894	0.460	1.513		1.47E-01	5.35E-02	2.22E-01	6.86E-01	3.43E-01	6.54E-01	6.36E-01		
0.269	1.024	0.022	2.251	0.886	0.548	1.451		2.52E-01	7.21E-01	4.23E-01	9.69E-01	7.28E-01	6.85E-01		
0.009	1.708	0.404	2.590	1.636	0.651	1.934	1.145		2.61E-02	7.50E-02	1.63E-01	1.73E-02	1.19E-01		
0.657	0.660	0.183	1.688	0.889	0.197	1.223	0.357	2.228		3.91E-01	3.39E-01	6.49E-01	4.06E-01		
1.484	0.272	1.242	0.939	0.033	1.178	0.404	0.802	1.782	0.858		4.49E-01	6.92E-01	5.80E-01		
1.040	0.914	0.432	1.769	0.543	0.358	0.949	0.039	1.395	0.956	0.758		6.50E-01	9.55E-01		
1.006	0.512	0.956	1.284	0.288	0.830	0.448	0.348	2.384	0.455	0.397	0.454		8.65E-01		
0.517	0.043	1.432	0.888	0.219	0.843	0.474	0.406	1.561	0.831	0.553	0.057	0.170			

T-statistic

Table S12.2: Pairwise t-test for Hydropathy (GRAVY) (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
	1	7.80E-01	6.81E-01	1.18E-01	3.76E-01	8.76E-01	5.62E-02	5.43E-02	3.76E-01	3.40E-01	8.20E-01	2.90E-01	9.88E-01	8.12E-01	P-value	
2	0.279	1.61E-01	8.10E-03	7.61E-02	3.43E-01	1.34E-02	1.55E-02	4.28E-01	4.62E-02	6.94E-01	3.32E-01	6.00E-01	2.53E-01			
3	0.412	1.405	2.18E-01	9.18E-01	6.32E-01	1.74E-01	4.47E-01	4.77E-02	6.66E-01	3.41E-01	6.48E-01	3.90E-01	9.77E-01			
4	1.567	2.660	1.232	2.36E-01	7.30E-02	7.71E-01	7.24E-01	4.70E-04	4.47E-01	3.67E-02	8.25E-02	2.53E-02	1.67E-01			
5	0.887	1.777	0.103	1.185	3.80E-01	1.37E-01	3.42E-01	2.24E-01	2.69E-01	7.95E-01	6.37E-01	4.94E-01	9.12E-01			
6	0.156	0.950	0.479	1.796	0.879	1.05E-02	5.63E-02	9.96E-01	1.25E-02	6.10E-01	1.33E-01	8.42E-01	2.22E-01			
7	1.915	2.483	1.362	0.291	1.498	2.565	6.65E-01	5.15E-03	7.90E-01	4.63E-02	2.56E-01	5.12E-02	1.53E-01			
8	1.929	2.429	0.760	0.353	0.950	1.913	0.434		5.38E-02	6.10E-01	1.82E-01	7.27E-01	1.01E-01	5.12E-01		
9	0.887	0.793	1.984	3.516	1.217	0.005	2.807	1.932		2.32E-03	2.50E-01	3.62E-02	1.69E-01	1.38E-01		
10	0.956	1.998	0.432	0.760	1.106	2.504	0.266	0.510	3.056		4.76E-01	7.62E-01	2.84E-01	4.48E-01		
11	0.228	0.393	0.952	2.094	0.259	0.497	1.996	1.334	1.152	0.713		6.56E-01	5.15E-01	9.07E-01		
12	1.058	0.970	0.457	1.738	0.472	1.504	1.136	0.349	2.098	0.303	0.446		3.96E-01	8.58E-01		
13	0.014	0.525	0.859	2.240	0.695	0.199	1.952	1.643	1.375	1.072	0.652	0.849		5.24E-01		
14	0.237	1.144	0.028	1.383	0.110	1.221	1.430	0.656	1.486	0.760	0.117	0.179	0.637			
															T-statistic	

Figure S13: Average Secondary Structure Proportions – Helix, Turn and Sheet Fractions by Chromosome (*Plasmodium falciparum*)

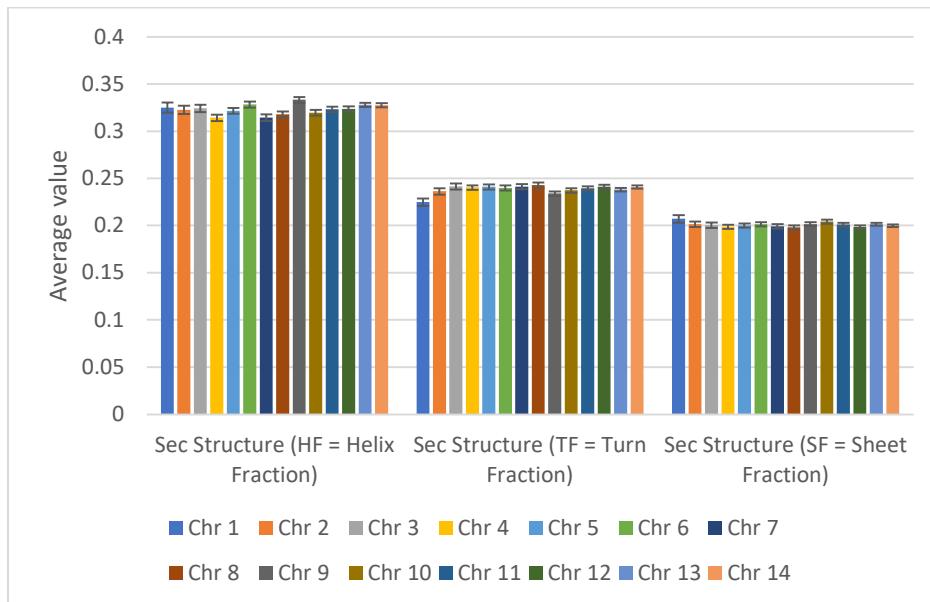


Table S13.1: Pairwise t-test for Secondary Structure Proportions – Helix Fraction (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	P-value
1	6.30E-01	8.32E-01	7.29E-02	5.95E-01	7.08E-01	3.39E-02	1.25E-01	2.71E-01	6.33E-01	9.27E-01	3.77E-01	7.74E-01	6.39E-01		
2	0.482	5.92E-01	1.86E-01	5.82E-01	3.96E-01	1.81E-01	3.07E-01	2.04E-02	8.20E-01	5.67E-01	7.16E-01	3.61E-01	3.61E-01	8.37E-01	
3	0.213	0.536	6.57E-02	5.93E-01	6.75E-01	9.07E-02	2.95E-01	7.38E-02	7.50E-01	7.81E-01	8.90E-01	4.83E-01	4.83E-01	7.82E-01	
4	1.799	1.324	1.845		2.04E-01	1.61E-02	9.58E-01	5.66E-01	1.05E-04	1.80E-01	4.71E-02	5.07E-02	9.93E-03	8.92E-02	
5	0.531	0.534	1.271		1.03E-01	1.41E-01	4.69E-01	3.85E-02	8.32E-01	5.46E-01	7.60E-01	1.71E-01	1.71E-01	4.57E-01	
6	0.375	0.880	0.420	2.414	1.632		3.92E-03	1.97E-02	5.10E-01	5.94E-02	5.42E-01	3.39E-01	9.85E-01	4.57E-01	
7	2.128	1.339	1.695	0.052	1.475	2.896		3.58E-01	6.77E-04	2.24E-01	2.88E-02	5.88E-02	1.21E-02	4.06E-02	
8	1.536 ⁹	1.023	1.048	0.575	0.725	2.337	0.921		2.06E-03	6.00E-01	9.53E-02	1.85E-01	2.34E-02	9.99E-02	
9	1.101	2.326	1.791	3.904	2.074	0.659	3.414	3.022		1.28E-03	1.09E-01	4.55E-02	9.55E-02	9.33E-02	
10	0.478	0.228	0.318	1.343	0.212	1.888	0.525	3.231		1.73E-01	3.43E-01	8.65E-02	1.21E-01		
11	0.092	0.572	0.278	1.989	0.605	0.610	2.191	1.670	1.607	1.362		8.93E-01	2.95E-01	5.21E-01	
12	0.884	0.365	0.139	1.957	0.306	0.956	1.892	1.327	2.002	0.949	0.135		2.38E-01	6.88E-01	
13	0.288	0.913	0.701	2.583	1.370	0.019	2.515	2.270	1.668	1.716	1.047	1.180		7.88E-01	
14	0.469	0.206	0.277	1.701	0.744	0.744	2.050	1.647	1.680	1.550	0.643	0.405	0.275		

Table S13.2: Pairwise t-test for Secondary Structure Proportions – Sheet Fraction (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	3.14E-02	3.09E-03	2.47E-03	2.09E-02	3.11E-03	5.94E-04	1.90E-04	9.67E-02	6.70E-03	1.40E-01	1.79E-02	2.78E-01	5.97E-02		
2	2.160	1.70E-01	3.51E-01	3.92E-01	4.62E-01	2.67E-01	6.41E-02	7.97E-01	4.86E-01	7.55E-01	4.36E-01	7.69E-01	4.39E-01		
3	2.978	1.374		8.00E-01	6.13E-01	9.92E-01	7.47E-01	3.63E-01	2.48E-01	6.53E-01	3.86E-01	8.07E-01	6.98E-02	6.91E-01	
4	3.047	0.933	0.253		8.81E-01	7.38E-01	5.56E-01	2.25E-01	2.17E-01	9.03E-01	6.46E-01	8.89E-01	1.42E-01	9.14E-01	
5	2.317	0.856	0.506	0.150		9.70E-01	9.63E-01	4.55E-01	2.45E-01	4.29E-01	3.80E-01	7.32E-01	1.22E-01	7.51E-01	
6	2.973	0.736	0.010	0.335	0.038		7.21E-01	4.34E-01	4.06E-01	8.45E-01	5.48E-01	6.67E-01	2.69E-01	8.83E-01	
7	3.460	1.110	0.323	0.589	0.046	0.357		2.03E-01	2.92E-01	4.20E-01	3.03E-01	8.88E-01	1.47E-01	7.29E-01	
8	3.763	1.855	0.911	1.216	0.748	0.783	1.275		1.10E-01	2.89E-01	1.70E-01	7.14E-01	5.51E-02	4.50E-01	
9	1.664	0.258	1.156	1.236	1.165	0.832	1.054	1.602		9.61E-02	1.11E-01	9.94E-03	5.45E-01	2.23E-02	
10	2.722	0.698	0.450	0.122	0.791	0.195	0.807	1.061	1.666		3.94E-01	5.98E-02	6.99E-01	2.06E-01	
11	1.478	0.312	0.867	0.459	0.879	0.600	1.031	1.373	1.596	0.853		2.80E-01	5.15E-01	5.41E-01	
12	2.375	0.780	0.244	0.139	0.343	0.450	0.141	0.366	2.583	1.885	1.080		2.01E-01	8.24E-01	
13	1.085	0.294	1.815	1.469	1.546	1.106	1.452	1.920	0.605	0.386	0.652	1.279		1.77E-01	
14	1.886	0.774	0.397	0.108	0.318	0.148	0.346	0.756	2.285	1.264	0.612	0.222	1.367		

T-statistic

P-value

Table S13.3: Pairwise t-test for Secondary Structure Proportions – Turn Fraction (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2.03E-01	3.12E-01	1.50E-01	2.00E-01	2.01E-01	1.08E-01	2.24E-03	2.96E-01	3.41E-01	9.69E-01	1.78E-01	4.60E-01	4.60E-01	4.21E-01
2	1.274	3.76E-01	3.61E-01	5.96E-01	7.89E-01	4.74E-01	1.78E-02	9.06E-01	9.04E-01	4.87E-01	5.15E-01	7.60E-01	8.51E-01	
3	1.013	0.887	6.76E-01	9.98E-01	7.01E-01	4.53E-01	3.77E-02	8.66E-01	9.24E-01	2.48E-01	6.06E-01	6.54E-01	7.77E-01	
4	1.443	0.915	0.418		7.49E-01	9.67E-01	7.23E-01	8.44E-02	4.87E-01	6.20E-01	1.03E-01	9.27E-01	3.14E-01	4.57E-01
5	1.283	0.531	0.002	0.321		9.99E-01	7.65E-01	2.95E-01	8.77E-01	7.34E-01	4.13E-01	2.12E-01	8.22E-01	9.22E-01
6	1.201	0.268	0.385	0.042	0.002		5.18E-01	2.79E-01	5.95E-01	3.64E-01	4.97E-01	9.50E-02	9.59E-01	5.18E-01
7	1.610	0.717	0.752	0.354	0.299	0.647		9.01E-02	8.77E-01	8.89E-01	1.70E-01	4.40E-01	4.78E-01	7.08E-01
8	3.074	2.376	2.083	1.729	1.048	1.083	1.698		6.82E-01	8.27E-01	9.31E-02	5.97E-01	3.05E-01	5.91E-01
9	1.046	0.118	0.168	0.695	0.155	0.531	0.154	0.410		9.12E-01	9.24E-01	2.32E-02	8.67E-01	4.02E-01
10	0.953	0.121	0.095	0.497	0.340	0.909	0.140	0.219	0.111		2.27E-01	2.22E-03	2.15E-01	9.22E-02
11	0.038	0.696	1.156	1.634	0.819	0.679	1.373	1.681	0.096	1.209		6.57E-02	9.26E-01	4.74E-01
12	1.349	0.651	0.516	0.092	1.250	1.671	0.773	0.529	2.274	3.068	1.843		4.67E-01	6.64E-01
13	0.740	0.306	0.448	1.008	0.225	0.052	0.709	1.026	0.168	1.241	0.093	0.727		1.53E-01
14	0.804	0.187	0.283	0.744	0.098	0.647	0.375	0.537	0.838	1.685	0.717	0.435	1.430	

T-statistic

P-value

Figure S14: Average Extinction Coefficient – Reduced or Non-reduced Cysteine, and Molecular Weight by Chromosome (*Plasmodium falciparum*)

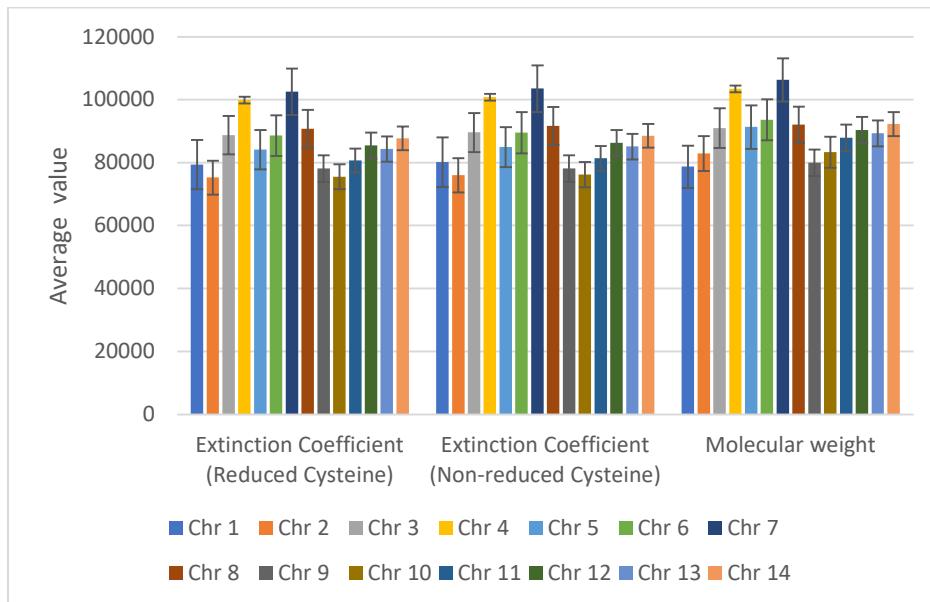


Table S14.1: Pairwise t-test for Extinction Coefficient – Reduced Cysteine (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1	9.47E-01	6.55E-01	3.05E-01	6.19E-01	5.75E-01	4.03E-02	3.39E-02	5.94E-01	3.49E-01	4.75E-01	3.37E-01	3.23E-01	9.99E-01			
2	0.067	1.01E-01	2.75E-02	1.89E-01	1.93E-01	2.23E-02	5.52E-02	4.07E-01	8.99E-01	8.87E-01	2.58E-01	1.93E-01	6.58E-01			
3	0.448	1.644		2.89E-01	6.88E-01	1.96E-01	7.64E-01	4.48E-01	3.19E-01	1.05E-01	6.99E-01	9.73E-01	3.08E-01			
4	1.027	2.211	1.061		3.02E-01	1.69E-01	8.03E-01	4.62E-01	9.43E-02	7.05E-02	1.76E-02	2.04E-01	2.40E-01	5.95E-02		
5	0.497	1.314	0.191	1.033		7.21E-01	5.81E-02	4.29E-01	6.17E-01	5.87E-01	3.54E-01	5.85E-01	6.78E-01	8.14E-01		
6	0.560	1.306	0.402	1.376	0.350		1.56E-01	8.05E-01	3.40E-01	2.75E-01	1.32E-01	9.42E-01	8.67E-01	5.40E-01		
7	2.057	2.292	1.296	0.250	1.899	1.421		2.34E-01	1.57E-02	1.43E-02	1.71E-03	1.82E-01	2.23E-01	2.32E-02		
8	2.128	1.922	0.301	0.736	0.791	0.247	1.192		2.18E-01	1.63E-01	6.14E-02	7.51E-01	6.91E-01	2.56E-01		
9	0.533	0.830	0.760	1.676	0.500	0.955	2.422	1.233		8.69E-01	7.79E-01	6.56E-02	4.06E-01	1.81E-01		
10	0.937	0.127	0.997	1.811	0.544	1.092	2.456	1.396	0.165		3.36E-01	9.01E-03	2.86E-01	8.72E-02		
11	0.715	0.143	1.624	2.379	0.928	1.507	3.148	1.873	0.281	0.963		2.49E-01	5.16E-01	2.42E-01		
12	0.960	1.132	0.387	1.272	0.547	0.072	1.335	0.318	1.843	2.617	1.153		9.06E-01	7.22E-01		
13	0.969	1.303	0.033	1.177	0.415	0.168	1.220	0.398	0.831	1.068	0.649	0.118		6.09E-01		
14	0.002	0.443	1.020	1.886	0.235	0.612	2.274	1.136	1.337	1.712	1.170	0.356	0.511			

Table S14.2: Pairwise t-test for Extinction Coefficient – Non-reduced Cysteine (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	9.50E-01	6.58E-01	3.02E-01	6.16E-01	5.73E-01	3.99E-02	3.34E-02	6.42E-01	3.50E-01	4.72E-01	3.36E-01	3.22E-01	9.99E-01
2	0.063	1.03E-01	2.76E-02	1.91E-01	1.93E-01	2.23E-02	5.55E-02	4.66E-01	9.04E-01	8.97E-01	2.60E-01	1.94E-01	6.65E-01	
3	0.443	1.635	2.87E-01	8.51E-01	6.93E-01	1.94E-01	7.61E-01	3.93E-01	3.20E-01	1.04E-01	7.01E-01	9.70E-01	3.07E-01	
4	1.033	2.210	1.065	3.01E-01	1.69E-01	8.04E-01	4.61E-01	7.89E-02	7.00E-02	1.71E-02	2.03E-01	2.39E-01	5.87E-02	
5	0.502	1.310	0.188	1.035		7.23E-01	5.78E-02	4.30E-01	5.48E-01	5.84E-01	3.49E-01	5.86E-01	6.76E-01	8.11E-01
6	0.564	1.303	0.396	1.376	0.354		1.57E-01	8.11E-01	2.89E-01	2.70E-01	1.29E-01	9.36E-01	8.65E-01	5.35E-01
7	2.061	2.291	1.300	0.249	1.901	1.416	2.33E-01	1.20E-02	1.40E-02	1.65E-03	1.81E-01	2.24E-01	2.29E-02	
8	2.133	1.919	0.305	0.737	0.789	0.239	1.194		1.81E-01	1.62E-01	6.02E-02	7.50E-01	6.94E-01	2.55E-01
9	0.465	0.730	0.855	1.760	0.601	1.060	2.519	1.338		9.64E-01	6.94E-01	5.03E-02	3.47E-01	1.47E-01
10	0.935	0.121	0.996	1.815	0.548	1.103	2.464	1.400	0.045		3.40E-01	8.92E-03	2.83E-01	8.70E-02
11	0.720	0.129	1.630	2.389	0.937	1.521	3.159	1.882	0.394	0.954		2.46E-01	5.10E-01	2.40E-01
12	0.963	1.127	0.385	1.275	0.545	0.081	1.339	0.319	1.960	2.621	1.161		9.06E-01	7.25E-01
13	0.990	1.299	0.037	1.177	0.418	0.170	1.218	0.393	0.941	1.073	0.659	0.118		6.13E-01
14	0.001	0.444	1.021	1.892	0.299	0.621	2.279	1.139	1.451	1.713	1.175	0.352	0.506	

T-statistic

P-value

Table S14.3: Pairwise t-test for Molecular Weight (*Plasmodium falciparum*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	4.84E-01	3.93E-01	7.58E-02	1.25E-01	1.62E-01	5.34E-03	9.34E-03	3.15E-03	5.99E-01	9.48E-01	1.14E-01	2.23E-01	5.74E-01	
2	0.700	2.64E-01	3.22E-02	1.74E-01	2.06E-01	3.38E-02	1.63E-01	8.29E-01	7.91E-01	9.64E-01	3.77E-01	3.54E-01	3.54E-01	
3	0.856	1.117		1.94E-01	7.14E-01	9.35E-01	1.08E-01	8.26E-01	5.06E-01	5.76E-01	3.00E-01	9.56E-01	9.49E-01	7.44E-01
4	1.780	2.149		1.302		5.40E-01	2.96E-01	7.15E-01	3.20E-01	6.91E-02	1.06E-01	3.56E-02	2.18E-01	1.55E-01
5	1.535	1.361	0.367	0.614		8.65E-01	1.30E-01	9.05E-01	3.26E-01	4.41E-01	2.57E-01	8.27E-01	8.37E-01	7.24E-01
6	1.399	1.267	0.082	0.147	0.170		1.64E-01	9.02E-01	2.76E-01	3.11E-01	1.38E-01	9.46E-01	9.61E-01	5.66E-01
7	2.800	2.128	1.612	0.365	1.515	1.393		2.04E-01	8.94E-03	2.77E-02	2.48E-03	1.91E-01	3.21E-01	5.44E-02
8	2.610	1.398	0.218	0.996	0.115	0.123	1.270		3.56E-01	3.67E-01	1.96E-01	8.60E-01	8.79E-01	6.65E-01
9	1.006	0.216	0.666	1.821	0.978	1.091	2.672	0.924		6.14E-01	2.96E-01	1.73E-02	1.24E-01	5.44E-02
10	0.526	0.266	0.560	1.618	0.771	1.013	2.283	0.903	0.504		5.23E-01	3.31E-02	4.32E-01	2.11E-01
11	0.065	0.045	1.036	2.106	1.133	1.412	3.036	1.294	1.060	0.639		3.78E-01	6.58E-01	3.11E-01
12	1.585	0.885	0.055	1.233	0.219	0.068	1.308	0.176	2.385	2.134	0.882		9.52E-01	5.55E-01
13	1.219	0.926	0.064	1.070	0.205	0.048	0.993	0.153	1.541	0.787	0.443	0.061		5.45E-01
14	0.562	0.549	0.326	1.423	0.247	0.983	1.922	0.424	1.925	1.236	1.000	0.591	0.669	

T-statistic

P-value

50

Figure S15: Average CDS Length by Chromosome (*Prunus dulcis*)

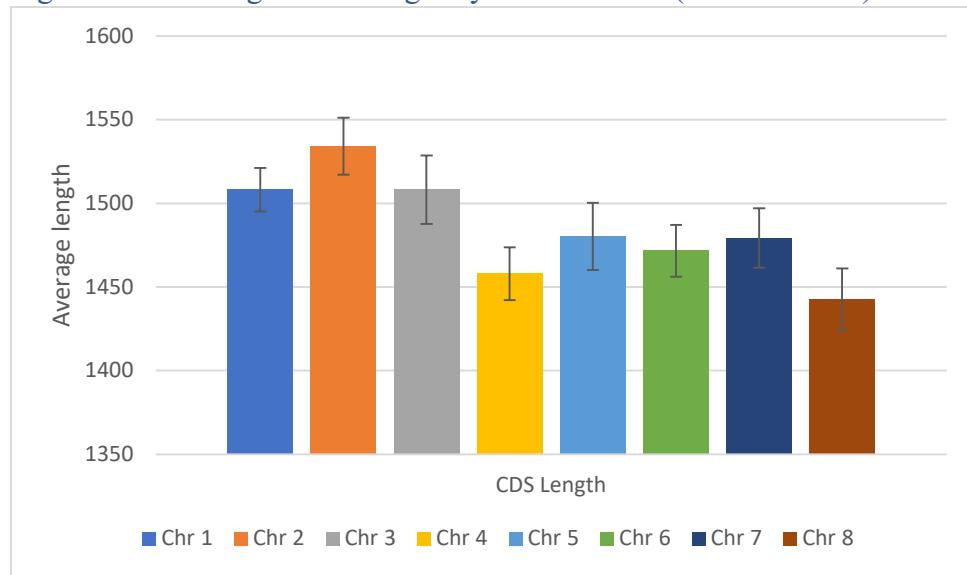


Table S15: Pairwise t-test for CDS Length (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		2.82E-01	9.02E-01	9.22E-03	1.96E-01	5.10E-02	1.47E-01	2.44E-03	P-value
2	1.077		3.29E-01	1.01E-03	4.04E-02	6.62E-03	2.55E-02	2.70E-04	
3	0.124	0.976		5.25E-02	3.31E-01	1.56E-01	2.87E-01	1.77E-02	
4	2.604	3.289	1.939		3.83E-01	5.37E-01	3.70E-01	5.27E-01	
5	1.293	2.050	0.972	0.873		7.34E-01	9.70E-01	1.68E-01	
6	1.951	2.716	1.418	0.617	0.340		7.47E-01	2.30E-01	
7	1.450	2.235	1.065	0.896	0.037	0.323		1.53E-01	
8	3.031	3.644	2.372	0.633	1.380	1.201	1.429		
	T-statistic								

Figure S16: Average %GC, %A and %T by Chromosome (*Prunus dulcis*)

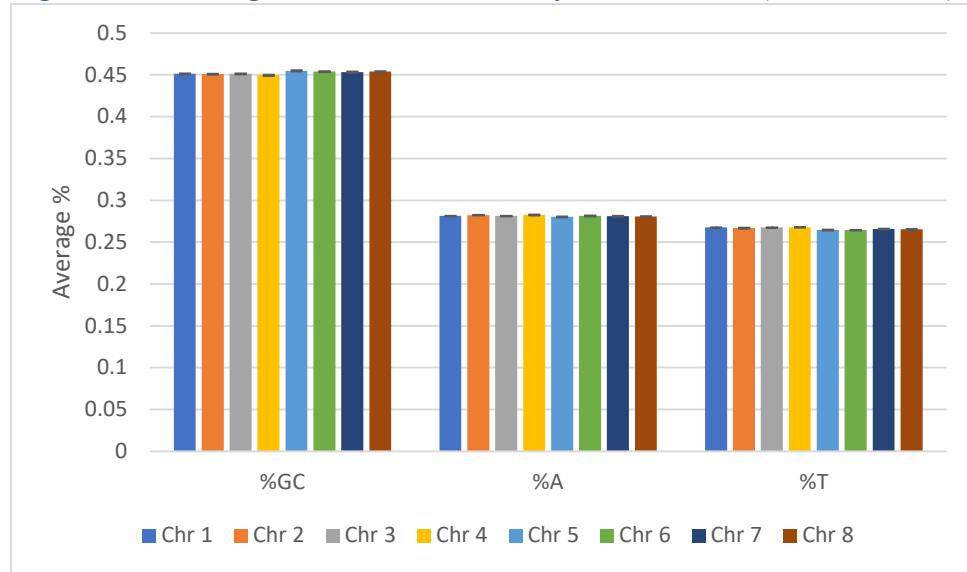


Table S16.1: Pairwise t-test for %GC (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		2.50E-07	3.83E-06	1.23E-10	8.98E-01	3.44E-01	7.09E-02	2.94E-01	P-value
2	5.161		6.08E-01	2.04E-01	9.27E-06	1.50E-04	7.24E-03	1.07E-03	
3	4.623	0.513		7.55E-02	6.98E-05	9.75E-04	2.65E-02	4.81E-03	
4	6.443	1.269	1.778		3.00E-08	6.19E-07	1.29E-04	1.18E-05	
5	0.128	4.437	3.979	5.548		3.64E-01	9.75E-02	3.11E-01	
6	0.946	3.792	3.299	4.989	0.908		3.93E-01	8.52E-01	
7	1.806	2.686	2.220	3.830	1.657	0.855		5.40E-01	
8	1.049	3.274	2.820	4.384	1.013	0.186	0.613		
	T-statistic								

Table S16.2: Pairwise t-test for %A (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.39E-03	1.31E-01	9.42E-04	8.47E-01	7.32E-02	2.31E-01	4.82E-01	P-value
2	3.197		1.38E-01	8.37E-01	1.55E-02	1.97E-01	1.15E-01	5.06E-02	
3	1.511	1.483		1.00E-01	2.90E-01	8.28E-01	8.55E-01	5.52E-01	
4	3.308	0.206	1.643		1.09E-02	1.45E-01	8.40E-02	3.62E-02	
5	0.193	2.420	1.057	2.548		2.03E-01	4.04E-01	6.67E-01	
6	1.792	1.290	0.218	1.459	1.272		6.97E-01	4.22E-01	
7	1.199	1.577	0.183	1.728	0.835	0.390		6.92E-01	
8	0.703	1.956	0.595	2.095	0.430	0.803	0.396		
	T-statistic								

Table S16.3: Pairwise t-test for %T (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.68E-03	5.83E-05	7.47E-06	7.22E-01	5.31E-01	3.10E-01	5.43E-01	P-value
2	3.142		4.02E-01	1.88E-01	3.44E-03	6.35E-04	8.80E-02	3.42E-02	
3	4.021	0.839		6.28E-01	2.43E-04	2.45E-05	1.34E-02	3.85E-03	
4	4.482	1.316	0.485		4.63E-05	3.40E-06	3.77E-03	9.20E-04	
5	0.356	2.927	3.672	4.076		8.52E-01	2.44E-01	4.11E-01	
6	0.627	3.417	4.222	4.648	0.186		1.46E-01	2.77E-01	
7	1.016	1.706	2.472	2.898	1.166	1.455		7.16E-01	
8	0.608	2.119	2.891	3.315	0.821	1.086	0.363		
	T-statistic								

Figure S17: Average %G and %C by Chromosome (*Prunus dulcis*)

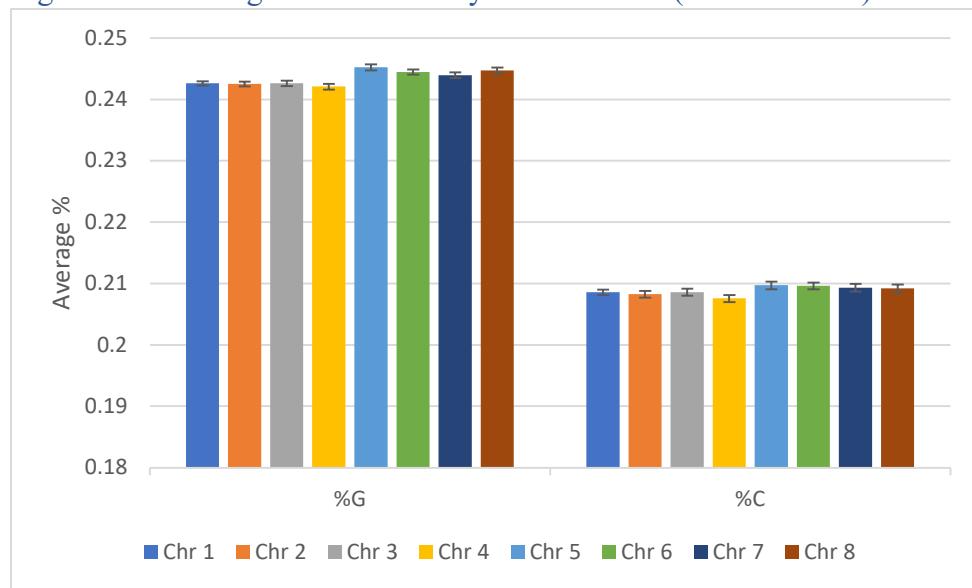


Table S17.1: Pairwise t-test for %G (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	P-value
1		8.63E-07	9.53E-06	1.24E-07	7.90E-01	2.60E-01	4.97E-02	5.44E-01	
2	4.923		8.34E-01	4.80E-01	2.06E-05	6.77E-04	1.65E-02	6.29E-04	
3	4.430	0.210		3.82E-01	9.08E-05	2.36E-03	3.55E-02	1.89E-03	
4	5.291	0.706	0.874		3.18E-06	1.10E-04	3.54E-03	1.12E-04	
5	0.266	4.261	3.916	4.663		2.42E-01	6.04E-02	4.57E-01	
6	1.125	3.400	3.042	3.870	1.171		4.10E-01	7.20E-01	
7	1.963	2.398	2.103	2.917	1.878	0.823		2.74E-01	
8	0.607	3.420	3.108	3.866	0.743	0.359	1.094		
	T-statistic								

Table S17.2: Pairwise t-test for %C (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		2.76E-02	9.29E-02	2.22E-03	9.11E-01	8.00E-01	5.36E-01	4.52E-01	P-value
2	2.203		6.82E-01	3.77E-01	7.84E-02	7.49E-02	1.94E-01	2.66E-01	
3	1.680	0.409		2.10E-01	1.82E-01	1.87E-01	3.77E-01	4.75E-01	
4	3.060	0.883	1.254		1.16E-02	9.45E-03	3.73E-02	6.01E-02	
5	0.111	1.760	1.334	2.525		9.12E-01	6.61E-01	5.74E-01	
6	0.253	1.781	1.319	2.596	0.110		7.20E-01	6.23E-01	
7	0.619	1.299	0.883	2.083	0.438	0.358		8.91E-01	
8	0.752	1.113	0.715	1.881	0.562	0.492	0.137		
	T-statistic								

Figure S18: Average Isoelectric point (pI) by Chromosome (*Prunus dulcis*)

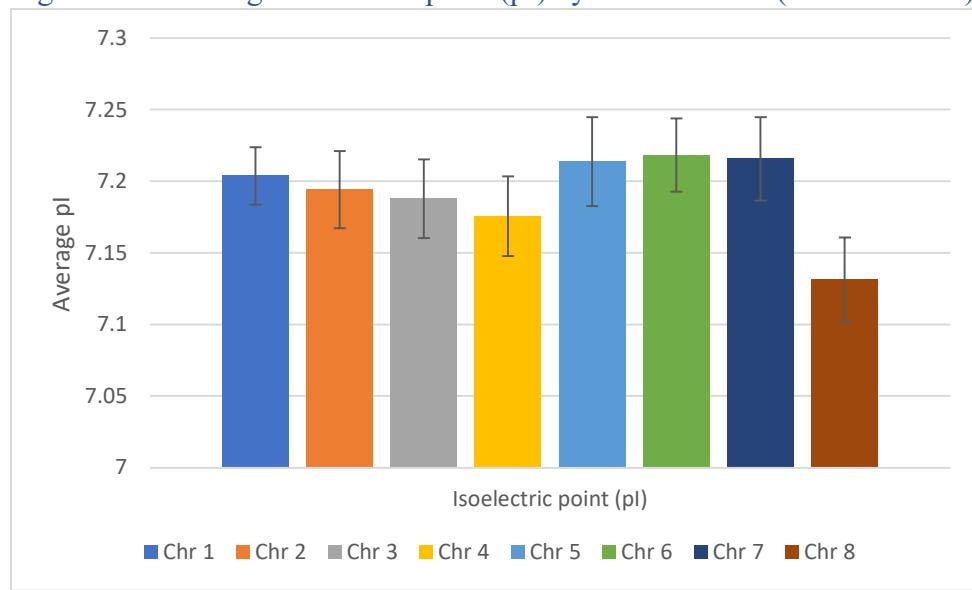


Table S18: Pairwise t-test for pI (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		7.77E-01	6.40E-01	4.14E-01	7.87E-01	6.54E-01	7.35E-01	4.25E-02	P-value
2	0.283		8.67E-01	6.31E-01	6.35E-01	5.17E-01	5.88E-01	1.15E-01	
3	0.468	0.168		7.57E-01	5.31E-01	4.16E-01	4.85E-01	1.61E-01	
4	0.817	0.480	0.310		3.61E-01	2.60E-01	3.20E-01	2.74E-01	
5	0.271	0.475	0.626	0.913		9.10E-01	9.63E-01	5.42E-02	
6	0.448	0.649	0.813	1.127	0.114		9.47E-01	2.60E-02	
7	0.339	0.542	0.698	0.994	0.046	0.067		4.17E-02	
8	2.028	1.578	1.402	1.095	1.926	2.227	2.037		
	T-statistic								

Figure S19: Average Aromaticity and Hydropathy (GRAVY) by Chromosome (*Prunus dulcis*)

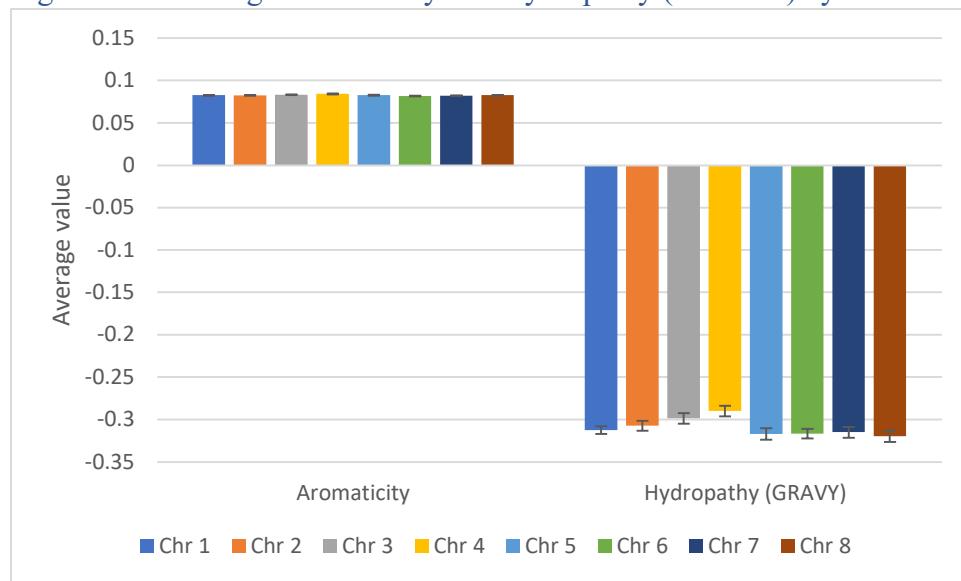


Table S19.1: Pairwise t-test for Aromaticity (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		6.66E-01	2.34E-01	4.22E-03	8.20E-01	9.13E-02	3.28E-01	9.11E-01	P-value
2	0.432		1.49E-01	3.20E-03	5.76E-01	2.64E-01	6.05E-01	7.98E-01	
3	1.190	1.443		1.38E-01	4.35E-01	1.13E-02	6.03E-02	2.73E-01	
4	2.862	2.949	1.482		2.96E-02	5.53E-05	9.30E-04	1.22E-02	
5	0.228	0.559	0.781	2.176		1.14E-01	3.11E-01	7.73E-01	
6	1.689	1.117	2.534	4.034	1.582		5.88E-01	1.96E-01	
7	0.978	0.517	1.879	3.312	1.013	0.541		4.66E-01	
8	0.112	0.256	1.096	2.507	0.289	1.294	0.729		
	T-statistic								

Table S19.2: Pairwise t-test for Hydropathy (GRAVY) (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		4.78E-01	7.15E-02	4.04E-03	5.77E-01	5.61E-01	7.47E-01	3.59E-01	P-value
2	0.709		3.10E-01	4.55E-02	2.73E-01	2.42E-01	3.71E-01	1.52E-01	
3	1.802	1.015		3.34E-01	4.51E-02	3.08E-02	6.77E-02	1.91E-02	
4	2.876	2.000	0.967		3.66E-03	1.66E-03	5.94E-03	1.14E-03	
5	0.558	1.097	2.005	2.907		9.68E-01	8.31E-01	7.68E-01	
6	0.582	1.169	2.160	3.147	0.040		8.47E-01	7.17E-01	
7	0.322	0.894	1.827	2.752	0.213	0.192		6.05E-01	
8	0.916	1.432	2.343	3.256	0.295	0.362	0.517		
	T-statistic								

Figure S20: Average Secondary Structure Proportions – Helix, Turn and Sheet Fractions by Chromosome (*Prunus dulcis*)

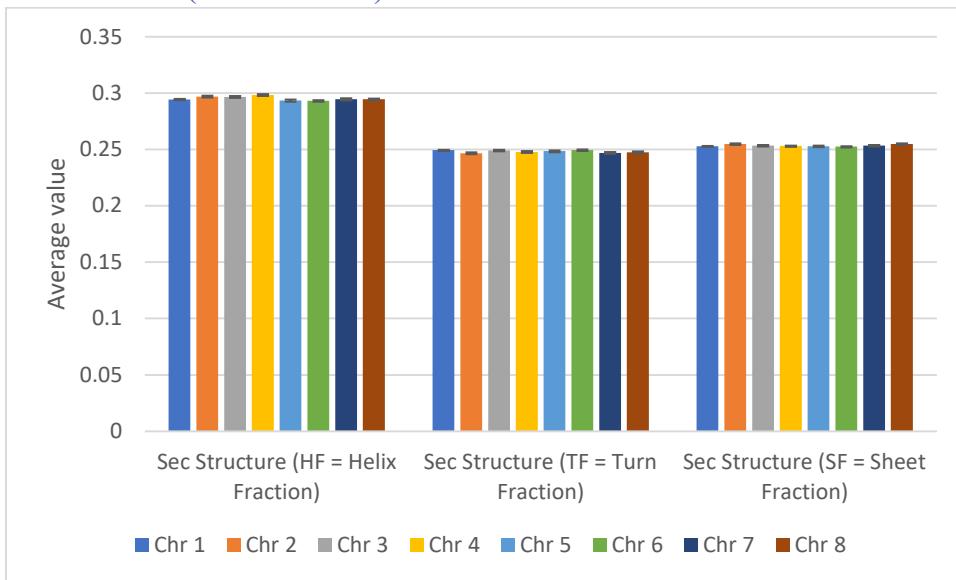


Table S20.1: Pairwise t-test for Secondary Structure Proportions – Helix Fraction (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.63E-02	4.41E-02	3.90E-04	4.18E-01	2.13E-01	9.21E-01	9.55E-01	
2	2.402		8.04E-01	2.68E-01	6.48E-03	9.53E-04	4.98E-02	4.73E-02	
3	2.014	0.248		1.91E-01	1.63E-02	3.52E-03	9.80E-02	9.31E-02	
4	3.548	1.107	1.309		2.31E-04	1.45E-05	2.98E-03	2.84E-03	
5	0.810	2.723	2.402	3.685		7.89E-01	4.28E-01	4.53E-01	P-value
6	1.246	3.305	2.919	4.339	0.268		2.52E-01	2.72E-01	
7	0.099	1.962	1.655	2.971	0.792	1.147		9.71E-01	
8	0.056	1.984	1.679	2.986	0.751	1.098	0.036		
	T-statistic								

Table S20.2: Pairwise t-test for Secondary Structure Proportions – Turn Fraction (*Prunus dulcis*)
 T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		5.46E-03	8.49E-01	1.26E-01	4.46E-01	8.34E-01	2.08E-02	7.09E-02	P-value
2	2.779		2.42E-02	3.29E-01	1.14E-01	5.71E-03	7.90E-01	5.17E-01	
3	0.190	2.255		2.33E-01	6.00E-01	7.18E-01	5.93E-02	1.46E-01	
4	1.529	0.976	1.193		5.40E-01	1.08E-01	4.99E-01	7.74E-01	
5	0.762	1.579	0.525	0.613		3.74E-01	2.06E-01	3.81E-01	
6	0.210	2.765	0.360	1.609	0.889		1.92E-02	6.15E-02	
7	2.313	0.267	1.886	0.676	1.266	2.341		7.10E-01	
8	1.806	0.647	1.454	0.287	0.875	1.870	0.371		
	T-statistic								

Table S20.3: Pairwise t-test for Secondary Structure Proportions – Sheet Fraction (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.36E-02	4.94E-01	9.33E-01	8.38E-01	5.18E-01	5.74E-01	1.77E-02	P-value
2	2.469		1.30E-01	4.19E-02	2.52E-02	4.62E-03	1.19E-01	9.62E-01	
3	0.684	1.515		6.05E-01	4.49E-01	2.37E-01	9.31E-01	1.36E-01	
4	0.084	2.035	0.517		8.02E-01	5.32E-01	6.76E-01	4.68E-02	
5	0.205	2.239	0.756	0.250		7.32E-01	5.13E-01	2.88E-02	
6	0.646	2.833	1.183	0.625	0.342		2.91E-01	6.24E-03	
7	0.562	1.561	0.087	0.418	0.654	1.056		1.24E-01	
8	2.372	0.048	1.491	1.988	2.187	2.736	1.538		
	T-statistic								

Figure S21: Average Extinction Coefficient – Reduced or Non-reduced Cysteine, and Molecular Weight by Chromosome (*Prunus dulcis*)

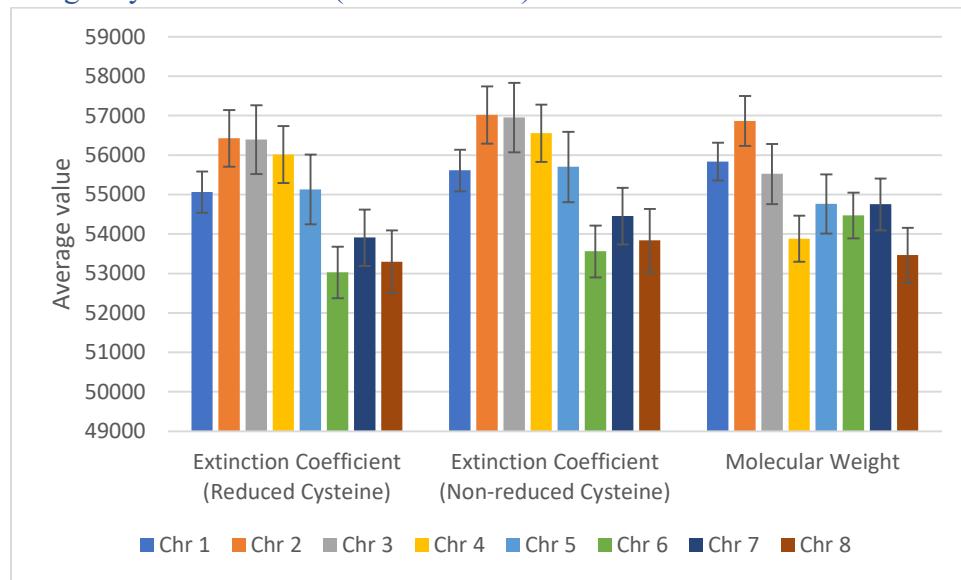


Table S21.1: Pairwise t-test for Extinction Coefficient – Reduced Cysteine (*Prunus dulcis*)
T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	P-value
1		1.26E-01	1.89E-01	2.84E-01	9.45E-01	1.48E-02	1.92E-01	6.41E-02	
2	1.532		9.81E-01	6.88E-01	2.57E-01	4.64E-04	1.29E-02	3.58E-03	
3	1.312	0.024		7.36E-01	3.08E-01	1.97E-03	2.72E-02	8.72E-03	
4	1.071	0.401	0.337		4.38E-01	2.10E-03	3.76E-02	1.14E-02	
5	0.069	1.134	1.019	0.775		5.49E-02	2.80E-01	1.23E-01	
6	2.437	3.502	3.096	3.076	1.920		3.61E-01	7.91E-01	
7	1.306	2.486	2.210	2.079	1.079	0.914		5.68E-01	
8	1.852	2.914	2.624	2.530	1.543	0.265	0.571		
	T-statistic								

Table S21.2: Pairwise t-test for Extinction Coefficient – Non-reduced Cysteine (*Prunus dulcis*)
 T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.17E-01	1.91E-01	2.92E-01	9.32E-01	1.49E-02	1.92E-01	6.44E-02	P-value
2	1.566		9.55E-01	6.55E-01	2.52E-01	4.16E-04	1.20E-02	3.29E-03	
3	1.306	0.057		7.30E-01	3.18E-01	2.02E-03	2.77E-02	8.89E-03	
4	1.054	0.447	0.346		4.56E-01	2.22E-03	3.92E-02	1.19E-02	
5	0.085	1.145	0.999	0.746		5.34E-02	2.75E-01	1.20E-01	
6	2.435	3.531	3.088	3.060	1.932		3.61E-01	7.91E-01	
7	1.304	2.513	2.202	2.063	1.092	0.914		5.68E-01	
8	1.850	2.940	2.617	2.515	1.554	0.265	0.570		
	T-statistic								

Table S21.3: Pairwise t-test for Molecular Weight (*Prunus dulcis*)

T-test with unequal variance used. Lower triangular matrix denotes t-statistic. Upper triangular matrix represents the corresponding p-values.

	1	2	3	4	5	6	7	8	
1		1.95E-01	7.28E-01	9.99E-03	2.26E-01	6.97E-02	1.84E-01	4.93E-03	P-value
2	1.297		1.75E-01	5.43E-04	3.16E-02	5.21E-03	2.06E-02	2.89E-04	
3	0.348	1.356		8.89E-02	4.77E-01	2.74E-01	4.46E-01	4.61E-02	
4	2.576	3.460	1.701		3.56E-01	4.74E-01	3.24E-01	6.44E-01	
5	1.210	2.150	0.712	0.923		7.61E-01	9.93E-01	2.03E-01	
6	1.814	2.794	1.095	0.716	0.305		7.50E-01	2.64E-01	
7	1.329	2.315	0.763	0.985	0.008	0.319		1.78E-01	
8	2.812	3.627	1.995	0.463	1.272	1.118	1.348		
	T-statistic								