

TABLE S1 | Number of sequences, voucher catalogue numbers, tissue identifiers, GenBank accession numbers, references and additional sequenced material included in this study.

N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
1	<i>Cambeva balios</i>	UFRGS 16435	2820A	MT002665	MT002666	Donin <i>et al.</i> (2020)
2	<i>Cambeva balios</i>	UFRGS 16435	2820B	MN995683		Donin <i>et al.</i> (2020)
3	<i>Cambeva balios</i>	UFRGS 6844	521	MN995681		Donin <i>et al.</i> (2020)
4	<i>Cambeva balios</i>	UFRGS 6842	533	MN995682	MN995755	Donin <i>et al.</i> (2020)
5	<i>Cambeva balios</i>	UFRGS 16284	2738A	MN995676	MN995756	Donin <i>et al.</i> (2020)
6	<i>Cambeva balios</i>	UFRGS 16284	2738B	MN995677		Donin <i>et al.</i> (2020)
7	<i>Cambeva balios</i>	UFRGS 17198	3203	MN995678		Donin <i>et al.</i> (2020)
8	<i>Cambeva balios</i>	UFRGS 21886	6861A	MN995679	MN995754	Donin <i>et al.</i> (2020)
9	<i>Cambeva balios</i>	UFRGS 21886	6861B	MN995680		Donin <i>et al.</i> (2020)
10	<i>Cambeva botuvera</i>	UFRGS 23182	7446A	MN995686		Donin <i>et al.</i> (2020)
11	<i>Cambeva botuvera</i>	UFRGS 23182	7446C	MN995687		Donin <i>et al.</i> (2020)
12	<i>Cambeva botuvera</i>	UFRGS 23182	7446F	MN995685		Donin <i>et al.</i> (2020)
13	<i>Cambeva botuvera</i>	UFRGS 23182	7446I	MN995690		Donin <i>et al.</i> (2020)
14	<i>Cambeva botuvera</i>	UFRGS 23182	7446L	MN995684		Donin <i>et al.</i> (2020)
15	<i>Cambeva botuvera</i>	UFRGS 23182	7446M	MN995691		Donin <i>et al.</i> (2020)
16	<i>Cambeva botuvera</i>	UFRGS 23182	7446P	MN995689		Donin <i>et al.</i> (2020)
17	<i>Cambeva botuvera</i>	UFRGS 22939	7365A	MN995688	MN995753	Donin <i>et al.</i> (2020)
18	<i>Cambeva botuvera</i>	UFRGS 22939	7365E	MN995692		Donin <i>et al.</i> (2020)
19	<i>Cambeva brachykechenos</i>	UFRGS 24666	8229	MN995669	MN995758	Donin <i>et al.</i> (2020)
20	<i>Cambeva cubataonis</i>		UFRJ9475	MK123689	MK123713	Katz <i>et al.</i> (2018)
21	<i>Cambeva cubataonis</i>	UFRGS 24543	8117A	MN995724	MN995789	Donin <i>et al.</i> (2020)
22	<i>Cambeva cubataonis</i>	UFRGS 24311	7996A	MN995725	MN995790	Donin <i>et al.</i> (2020)
23	<i>Cambeva cubataonis</i>	UFRGS 24552	8126A	MN995726	MN995791	Donin <i>et al.</i> (2020)
24	<i>Cambeva cubataonis</i>	UFRGS 24552	8126B	MN995727		Donin <i>et al.</i> (2020)
25	<i>Cambeva cubataonis</i>	UFRGS 24556	8130A	MN995721	MN995792	Donin <i>et al.</i> (2020)
26	<i>Cambeva cubataonis</i>	UFRGS 24556	8130B	MN995722	MN995793	Donin <i>et al.</i> (2020)
27	<i>Cambeva cubataonis</i>	MNRJ 32940	MNHM4644	MN995723	MN995788	Donin <i>et al.</i> (2020)



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N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
28	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD25	KR140357		Nascimento <i>et al.</i> (2017)
29	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD27	KR140355		Nascimento <i>et al.</i> (2017)
30	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD28	KR140354		Nascimento <i>et al.</i> (2017)
31	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD29	KR140353		Nascimento <i>et al.</i> (2017)
32	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD31	KR140352		Nascimento <i>et al.</i> (2017)
33	<i>Cambeva davisi</i>	MZUEL 11776	MZUEL11776TD32	KR140351		Nascimento <i>et al.</i> (2017)
34	<i>Cambeva davisi</i>	LBP 7130	LBPV34219	KY857988	KY858055	Ochoa <i>et al.</i> (2017a)
35	<i>Cambeva davisi</i>		Amola_faca_6	KY232041		Morais-Silva <i>et al.</i> (2018)
36	<i>Cambeva davisi</i>		Amola_faca_5	KY232040		Morais-Silva <i>et al.</i> (2018)
37	<i>Cambeva davisi</i>		W102C	KY232039		Morais-Silva <i>et al.</i> (2018)
38	<i>Cambeva davisi</i>		W102B	KY232038		Morais-Silva <i>et al.</i> (2018)
39	<i>Cambeva davisi</i>		W98B	KY232037		Morais-Silva <i>et al.</i> (2018)
40	<i>Cambeva davisi</i>		W98A	KY232036		Morais-Silva <i>et al.</i> (2018)
41	<i>Cambeva davisi</i>		W96C	KY232035		Morais-Silva <i>et al.</i> (2018)
42	<i>Cambeva davisi</i>		W96B	KY232034		Morais-Silva <i>et al.</i> (2018)
43	<i>Cambeva davisi</i>		W95B	KY232033		Morais-Silva <i>et al.</i> (2018)
44	<i>Cambeva davisi</i>		W70B	KY232032		Morais-Silva <i>et al.</i> (2018)
45	<i>Cambeva davisi</i>		W66A	KY232031		Morais-Silva <i>et al.</i> (2018)
46	<i>Cambeva davisi</i>	NUP 15660	NUP15660E	KY232020		Morais-Silva <i>et al.</i> (2018)
47	<i>Cambeva davisi</i>	NUP 15564	NUP15564A	KY232019		Morais-Silva <i>et al.</i> (2018)
48	<i>Cambeva davisi</i>	NUP 15384	NUP15384A	KY232018		Morais-Silva <i>et al.</i> (2018)
49	<i>Cambeva davisi</i>	NUP 15382	NUP15382C	KY232017		Morais-Silva <i>et al.</i> (2018)
50	<i>Cambeva davisi</i>		W76A	KY232016		Morais-Silva <i>et al.</i> (2018)
51	<i>Cambeva davisi</i>	MZUEL 17202	A	MN995728	MN995777	Donin <i>et al.</i> (2020)
52	<i>Cambeva davisi</i>	MZUEL 17202	B	MN995729	MN995778	Donin <i>et al.</i> (2020)
53	<i>Cambeva davisi</i>	MZUEL 17213	A	MN995730	MN995775	Donin <i>et al.</i> (2020)
54	<i>Cambeva davisi</i>	MZUEL 17213	B	MN995731	MN995776	Donin <i>et al.</i> (2020)
55	<i>Cambeva davisi</i>	MZUEL 14788	A	OP257291		Present study
56	<i>Cambeva davisi</i>	MZUEL 14788	B	OP257290		Present study



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N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
57	<i>Cambeva diabola</i>		LBPV21295	JN989259		Pereira <i>et al.</i> (2013)
58	<i>Cambeva diabola</i>		LBPV21298	JN989258		Pereira <i>et al.</i> (2013)
59	<i>Cambeva diabola</i>		LBPV21297	JN989257		Pereira <i>et al.</i> (2013)
60	<i>Cambeva diabola</i>		LBPV19861	JN989256		Pereira <i>et al.</i> (2013)
61	<i>Cambeva diabola</i>		LBPV19860	JN989255		Pereira <i>et al.</i> (2013)
62	<i>Cambeva diatropoporos</i>	LBP 14694	LBPV61155	KY857996	KY858065	Ochoa <i>et al.</i> (2017a)
63	<i>Cambeva diatropoporos</i>	UFRGS 17887	3560	MN995654		Donin <i>et al.</i> (2020)
64	<i>Cambeva diatropoporos</i>	UFRGS 17889	3562	MN995655	MN995747	Donin <i>et al.</i> (2020)
65	<i>Cambeva guaraquessaba</i>	UFRGS 24541	8115	MN995661	MN995748	Donin <i>et al.</i> (2020)
66	<i>Cambeva guaraquessaba</i>	UFRGS 24554	8128A	MN995662	MN995749	Donin <i>et al.</i> (2020)
67	<i>Cambeva guaraquessaba</i>	MNRJ 40846	7152B	MN995660		Donin <i>et al.</i> (2020)
68	<i>Cambeva iheringi</i>	DZSJRP 12335	ID12	GU350776		Silva <i>et al.</i> (2010)
69	<i>Cambeva iheringi</i>	DZSJRP 12335	ID47	GU350786		Silva <i>et al.</i> (2010)
70	<i>Cambeva iheringi</i>	DZSJRP 12338	ID80	GU350785		Silva <i>et al.</i> (2010)
71	<i>Cambeva iheringi</i>	DZSJRP 12337	ID49	GU350784		Silva <i>et al.</i> (2010)
72	<i>Cambeva iheringi</i>	DZSJRP 12333	ID90	GU350782		Silva <i>et al.</i> (2010)
73	<i>Cambeva iheringi</i>	DZSJRP 12333	ID43	GU350781		Silva <i>et al.</i> (2010)
74	<i>Cambeva iheringi</i>	DZSJRP 12333	ID22	GU350780		Silva <i>et al.</i> (2010)
75	<i>Cambeva iheringi</i>	DZSJRP 12334	ID66	GU350779		Silva <i>et al.</i> (2010)
76	<i>Cambeva iheringi</i>	DZSJRP 12334	ID59	GU350778		Silva <i>et al.</i> (2010)
77	<i>Cambeva iheringi</i>	DZSJRP 12334	ID26	GU350777		Silva <i>et al.</i> (2010)
78	<i>Cambeva iheringi</i>	DZSJRP 12335	ID67	GU350775		Silva <i>et al.</i> (2010)
79	<i>Cambeva iheringi</i>	LBP 21760		GU701893		Pereira <i>et al.</i> (2013)
80	<i>Cambeva iheringi</i>	LBP 21759		GU701892		Pereira <i>et al.</i> (2013)
81	<i>Cambeva iheringi</i>	LBP 21803		GU701477		Pereira <i>et al.</i> (2013)
82	<i>Cambeva iheringi</i>	LBP 21761		GU701476		Pereira <i>et al.</i> (2013)
83	<i>Cambeva iheringi</i>	LBP 4512	LBPV24563	KY858008	KY858074	Ochoa <i>et al.</i> (2017a)



TABLE S1 | (Continued)

N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
84	<i>Cambeva naipi</i>	UFRGS 11405	6739	MN995699	MN995771	Donin <i>et al.</i> (2020)
85	<i>Cambeva pascuali</i>			MF034463		Ochoa <i>et al.</i> (2017b)
86	<i>Cambeva perkos</i>	LBP 17033	LBPV 66403	KY857981	KY858050	Ochoa <i>et al.</i> (2017a)
87	<i>Cambeva perkos</i>	UFRGS 17923	3596	MN995663	MN995759	Donin <i>et al.</i> (2020)
88	<i>Cambeva perkos</i>	UFRGS 18252	3749A	OP257292		Present study
89	<i>Cambeva poikilos</i>	LBP 14693	LBPV61154	KY857995	KY858064	Ochoa <i>et al.</i> (2017a)
90	<i>Cambeva poikilos</i>	UFRGS 15014	1795	MN995695	MN995761	Donin <i>et al.</i> (2020)
91	<i>Cambeva poikilos</i>	UFRGS 17419	3314	MN995696		Donin <i>et al.</i> (2020)
92	<i>Cambeva poikilos</i>	UFRGS 20352	5622A	MN995694		Donin <i>et al.</i> (2020)
93	<i>Cambeva poikilos</i>	UFRGS 24604	8177A	MN995693		Donin <i>et al.</i> (2020)
94	<i>Cambeva stawiarski</i>	NUP15661	NUP15661B	KY232025		Morais-Silva <i>et al.</i> (2018)
95	<i>Cambeva stawiarski</i>	NUP15428	NUP15428A	KY232021		Morais-Silva <i>et al.</i> (2018)
96	<i>Cambeva stawiarski</i>	NUP15760	NUP15760B	KY232007		Morais-Silva <i>et al.</i> (2018)
97	<i>Cambeva stawiarski</i>	NUP15756	NUP15756B	KY232006		Morais-Silva <i>et al.</i> (2018)
98	<i>Cambeva stawiarski</i>	NUP15744	NUP15744A	KY232005		Morais-Silva <i>et al.</i> (2018)
99	<i>Cambeva stawiarski</i>	NUP15726	NUP15726C	KY232004		Morais-Silva <i>et al.</i> (2018)
100	<i>Cambeva stawiarski</i>	NUP15726	NUP15726A	KY232003		Morais-Silva <i>et al.</i> (2018)
101	<i>Cambeva stawiarski</i>	NUP15645	NUP15645A	KY232002		Morais-Silva <i>et al.</i> (2018)
102	<i>Cambeva stawiarski</i>	NUP15635	NUP15635A	KY232001		Morais-Silva <i>et al.</i> (2018)
103	<i>Cambeva stawiarski</i>	NUP15621	NUP15621B	KY232000		Morais-Silva <i>et al.</i> (2018)
104	<i>Cambeva stawiarski</i>		W84A	KY231999		Morais-Silva <i>et al.</i> (2018)
105	<i>Cambeva stawiarski</i>		W81C	KY231998		Morais-Silva <i>et al.</i> (2018)
106	<i>Cambeva stawiarski</i>		W81B	KY231997		Morais-Silva <i>et al.</i> (2018)
107	<i>Cambeva stawiarski</i>		W81A	KY231996		Morais-Silva <i>et al.</i> (2018)
108	<i>Cambeva stawiarski</i>		W80A	KY231995		Morais-Silva <i>et al.</i> (2018)
109	<i>Cambeva stawiarski</i>	NUP15434	NUP15434A	KY231994		Morais-Silva <i>et al.</i> (2018)
110	<i>Cambeva stawiarski</i>		W57A	KY231993		Morais-Silva <i>et al.</i> (2018)
111	<i>Cambeva stawiarski</i>		W55A	KY231992		Morais-Silva <i>et al.</i> (2018)
112	<i>Cambeva stawiarski</i>		W53A	KY231991		Morais-Silva <i>et al.</i> (2018)
113	<i>Cambeva stawiarski</i>		W51D	KY231990		Morais-Silva <i>et al.</i> (2018)
114	<i>Cambeva stawiarski</i>		W50E	KY231989		Morais-Silva <i>et al.</i> (2018)
115	<i>Cambeva stawiarski</i>		W49B	KY231988		Morais-Silva <i>et al.</i> (2018)
116	<i>Cambeva stawiarski</i>		W48C	KY231987		Morais-Silva <i>et al.</i> (2018)
117	<i>Cambeva stawiarski</i>	NUP15709	NUP15709B	KY231982		Morais-Silva <i>et al.</i> (2018)
118	<i>Cambeva stawiarski</i>		W47	KY231972		Morais-Silva <i>et al.</i> (2018)



TABLE S1 | (Continued)

N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
119	<i>Cambeva stawiarski</i>		W85C	KY231966		Morais-Silva <i>et al.</i> (2018)
120	<i>Cambeva stawiarski</i>	UFRGS 18307	3793A	MN995720	MN995779	Donin <i>et al.</i> (2020)
121	<i>Cambeva stawiarski</i>	UFRGS 18307	3793B	MN995732		Donin <i>et al.</i> (2020)
122	<i>Cambeva taroba</i>	UFRGS 18308	3794A	MN995708	MN995757	Donin <i>et al.</i> (2020)
123	<i>Cambeva tupinamba</i>	UFRGS 24563	8137A	MN995659	MN995750	Donin <i>et al.</i> (2020)
124	<i>Cambeva tupinamba</i>	UFRGS 24563	8137B	MN995658		Donin <i>et al.</i> (2020)
125	<i>Cambeva tupinamba</i>	UFRGS 24550	8124A	MN995656	MN995751	Donin <i>et al.</i> (2020)
126	<i>Cambeva tupinamba</i>	UFRGS 24550	8124B	MN995657		Donin <i>et al.</i> (2020)
127	<i>Cambeva tropeiro</i>	UFRGS 21878	6855A	MN995674	MN995752	Donin <i>et al.</i> (2020)
128	<i>Cambeva tropeiro</i>	UFRGS 21878	6855B	MN995675		Donin <i>et al.</i> (2020)
129	<i>Cambeva variegata</i>	LBP 10289	LBPV47222	KY857991	KY858060	Ochoa <i>et al.</i> (2017a)
130	<i>Cambeva zonata</i>	LBP 2653	LBPV17409	KY857986	KY858053	Ochoa <i>et al.</i> (2017a)
131	<i>Cambeva zonata</i>	UFRGS 24538	8112A	MN995706	MN995772	Donin <i>et al.</i> (2020)
132	<i>Cambeva zonata</i>	UFRGS 24538	8112B	MN995705	MN995774	Donin <i>et al.</i> (2020)
133	<i>Cambeva zonata</i>	UFRGS 18675	3998	MN995707	MN995773	Donin <i>et al.</i> (2020)
134	<i>Cambeva flavopicta</i>	UFRGS 14998	1780A	MN995697	MN995770	Donin <i>et al.</i> (2020)
135	<i>Cambeva flavopicta</i>	UFRGS 14998	1780B	MN995698		Donin <i>et al.</i> (2020)
136	<i>Cambeva</i> sp. 1	UFRGS 17220	3225A	MN995665	MN995763	Donin <i>et al.</i> (2020)
137	<i>Cambeva</i> sp. 1	UFRGS 17220	3225B	MN995664		Donin <i>et al.</i> (2020)
138	<i>Cambeva</i> sp. 1	UFRGS 17228	3233	MN995666		Donin <i>et al.</i> (2020)
139	<i>Cambeva</i> sp. 1	UFRGS 19149	4867A	MN995667		Donin <i>et al.</i> (2020)
140	<i>Cambeva</i> sp. 1	UFRGS 19149	4867B	OP257289		Present study
141	<i>Cambeva</i> sp. 1	UFRGS 19178	4881	MN995668		Donin <i>et al.</i> (2020)
142	<i>Cambeva</i> sp. 1	UFRGS 22962	7378A	MN995671	MN995760	Donin <i>et al.</i> (2020)
143	<i>Cambeva</i> sp. 1	UFRGS 22962	7378B	OP265740		Present study
144	<i>Cambeva</i> sp. 1	UFRGS 23494	7583	MN995670	MN995762	Donin <i>et al.</i> (2020)
145	<i>Cambeva</i> sp. 2	UFRGS 22964	7380A	MN995703	MN995764	Donin <i>et al.</i> (2020)
146	<i>Cambeva</i> sp. 2	UFRGS 22964	7380B	MN995704	MN995765	Donin <i>et al.</i> (2020)
147	<i>Cambeva</i> sp. 2	UFRGS 23184	7448A	MN995700	MN995766	Donin <i>et al.</i> (2020)
148	<i>Cambeva</i> sp. 2	UFRGS 23184	7448B	MN995702		Donin <i>et al.</i> (2020)
149	<i>Cambeva</i> sp. 2	UFRGS 23185	7449A	MN995701	MN995767	Donin <i>et al.</i> (2020)
150	<i>Cambeva</i> sp.	UFRGS 22939	7365F	MN995672	MN995768	Donin <i>et al.</i> (2020)
151	<i>Cambeva</i> sp.	UFRGS 22939	7365I	MN995673	MN995769	Donin <i>et al.</i> (2020)



TABLE S1 | (Continued)

N	Species	Vouchers	Tissue (tis)	COI	Cytb	References
152	<i>Cambeva barbosa</i>	UFRGS 22906	7344A	MN995714	MN995783	Donin <i>et al.</i> (2020)
153	<i>Cambeva barbosa</i>	UFRGS 22906	7344B	MN995715	MN995787	Donin <i>et al.</i> (2020)
154	<i>Cambeva barbosa</i>	UFRGS 22932	7360A	MN995711	MN995784	Donin <i>et al.</i> (2020)
155	<i>Cambeva barbosa</i>	UFRGS 22932	7360B	MN995713		Donin <i>et al.</i> (2020)
156	<i>Cambeva barbosa</i>	UFRGS 22907	7345A	MN995710	MN995782	Donin <i>et al.</i> (2020)
157	<i>Cambeva barbosa</i>	UFRGS 22907	7345B	MN995712		Donin <i>et al.</i> (2020)
158	<i>Cambeva barbosa</i>	UFRGS 23235	7458	MN995709	MN995780	Donin <i>et al.</i> (2020)
159	<i>Cambeva barbosa</i>	UFRGS 23183	7447A	MN995716	MN995786	Donin <i>et al.</i> (2020)
160	<i>Cambeva barbosa</i>	UFRGS 23183	7447B	MN995718	MN995785	Donin <i>et al.</i> (2020)
161	<i>Cambeva barbosa</i>	MCP 50477		MN995717		Donin <i>et al.</i> (2020)
162	<i>Cambeva barbosa</i>	MCP 50476		MN995719	MN995781	Donin <i>et al.</i> (2020)
163	<i>Cambeva horacioi</i>	NUP 15668	NUP 15668A	KY232026		Morais-Silva <i>et al.</i> (2018)
164	<i>Cambeva horacioi</i>	NUP15669	NUP15669A	KY232027		Morais-Silva <i>et al.</i> (2018)
165	<i>Cambeva horacioi</i>	NUP15692	NUP15692A	KY232028		Morais-Silva <i>et al.</i> (2018)
166	<i>Cambeva horacioi</i>	NUP15696	NUP15696A	KY232029		Morais-Silva <i>et al.</i> (2018)
167	<i>Cambeva horacioi</i>	NUP15747	NUP15747A	KY232030		Morais-Silva <i>et al.</i> (2018)
168	<i>Cambeva horacioi</i>	NUP15591	NUP15591C	KY232022		Morais-Silva <i>et al.</i> (2018)
169	<i>Cambeva horacioi</i>	NUP15591	NUP15591D	KY232023		Morais-Silva <i>et al.</i> (2018)
170	<i>Cambeva horacioi</i>	NUP15610	NUP15610B	KY232024		Morais-Silva <i>et al.</i> (2018)
171	<i>Scleronema minutum</i>			KY857957	KY858031	Ochoa <i>et al.</i> (2017a)
	<i>Trichomycterus jacupiranga</i>	UFRGS 24555	8129A	OP257287	OP245918	Donin <i>et al.</i> (2020)
	<i>Trichomycterus jacupiranga</i>	UFRGS 24555	8129B	OP257288	OP245919	Donin <i>et al.</i> (2020)

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