

SUPPLEMENTARY MATERIAL

corresponding to:

**The “Mexican dancer” in Ecuador:
molecular confirmation, embryology and planktotrophy
in the sea slug *Elysia diomedea***

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Appendix 1. Specimens sequenced for this study and sequences obtained from GenBank

Study code	Species	Locality*	GenBank Accession number	
			16 S	COI
LAM001	<i>Elysia diomedea</i>	Ballenita, Ecuador	this study	this study
LAM002	<i>Elysia diomedea</i>	Ballenita, Ecuador	this study	this study
LAM003	<i>Elysia diomedea</i>	Ballenita, Ecuador	this study	this study
LAM004	<i>Elysia diomedea</i>	Ballenita, Ecuador	this study	this study
LAM005	<i>Elysia diomedea</i>	Ballenita, Ecuador	this study	this study
LAM006	<i>Elysia diomedea</i>	Cabayu, Ecuador	this study	this study
LAM007	<i>Elysia diomedea</i>	Cabayu, Ecuador	this study	this study
LAM008	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM009	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM010	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM011	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM012	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM013	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM014	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM015	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM016	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
LAM017	<i>Elysia diomedea</i>	Mompiche, Ecuador	this study	this study
TDI	<i>Elysia diomedea</i>	Costa Rica	DQ480193	-
TDI1	<i>Elysia diomedea</i>	Costa Rica	-	DQ471265
TDI2	<i>Elysia diomedea</i>	Costa Rica	DQ480194	-
07BLR03	<i>Elysia diomedea</i>	Los Ríos, Panamá	KM204228	KM086379
07Jap01	<i>Elysia abei</i>	Misaki Marine Biological Station, the University of Tokyo, Japan	JN819137	KM086374
Ea703LI	<i>Elysia amakusana</i>	Lizard Island, Australia	EU140851	GQ996686
10TAA4	<i>Elysia amakusana</i>	Niigata, Japan	AB759025	-
06Van01	<i>Elysia asbecki</i>	NA, Vanuatu	KM204200	-
BC3471	<i>Elysia asbecki</i>	NA, Vanuatu	-	KM086360
02Jap01	<i>Elysia atroviridis</i>	Choshi, Japan	KM204223	KC573760
ESE2	<i>Elysia atroviridis</i>	Okinawa, Japan	DQ480163	DQ471239
ESE3	<i>Elysia atroviridis</i>	Okinawa, Japan	-	DQ471240
ESE4	<i>Elysia atroviridis</i>	Okinawa, Japan	-	DQ471241
07Aus03	<i>Elysia australis</i>	Coulom, Australia	JN819142	JN819109
09Tha01	<i>Elysia bangtawaensis</i>	Bang Tawa, Thailand	KM204224	KM086375

Eb779Sa	<i>Elysia bennettiae</i>	NA, Samoa	EU140868	-
EBE2	<i>Elysia bennettiae</i>	NA, Guam	DQ480183	DQ471216
EBE3	<i>Elysia bennettiae</i>	NA, Guam	-	DQ471217
04SSal02	<i>Elysia buonoi</i>	Bahamas	JQ914621	-
10Dry01	<i>Elysia canguzua</i>	Dry Tortugas, United States	KM204225	-
ECA2	<i>Elysia canguzua</i>	Florida, United States	-	DQ471218
ECA3	<i>Elysia canguzua</i>	Florida, United States	DQ480196	DQ471219
ECA4	<i>Elysia canguzua</i>	Florida, United States	-	DQ471220
09Tha0001	<i>Elysia chilkensis</i>	NA, Singapore	KM204209	KM086361
06Mas01	<i>Elysia chlorotica</i>	Martha's Vineyard, United States	KM204226	KM086377
ECL	<i>Elysia chlorotica</i>	Massachusetts, United States	-	DQ471221
ECL24	<i>Elysia chlorotica</i>	Massachusetts, United States	DQ480200	-
ECL4	<i>Elysia chlorotica</i>	Massachusetts, United States	DQ471222	-
06Jam01	<i>Elysia cornigera</i>	Discovery Bay, Jamaica	JN819125	JN819084
06FL01	<i>Elysia crispata</i>	Summerland Key, United States	JN819139	JN819090
ECR37	<i>Elysia crispata</i>	NA, Belize	DQ480199	-
ECR42	<i>Elysia crispata</i>	ambiguous in literature	-	DQ471223
ECR46	<i>Elysia crispata</i>	ambiguous in literature	DQ480198	DQ471224
09Gua01	<i>Elysia degeneri</i>	Bile Bay, Guam	KM204227	KM086378
10Npr01	<i>Elysia ellenae</i>	New Providence, Bahamas	JN819141	-
06MUS01	<i>Elysia flava</i>	Bocas del Toro, Panamá	KM204229	-
11How02	<i>Elysia furvacauda</i>	Lord Howe Island, Australia	KM204218	-
Eham02Jap01	<i>Elysia hamatanii</i>	Misaki Marine Biological Station, the University of Tokyo, Japan	JN819143	JN819110
05SD01	<i>Elysia hedgpethi</i>	San Diego, United States	KM204230	KM086380
09Tha001	<i>Elysia leucolegnote</i>	Bang Tawa, Thailand	KM204231	KM086381
11Maui01	<i>Elysia lobata</i>	Hekili Point (Hawaii, Maui), United States	KM204232	KM086382
Em726Su	<i>Elysia macnaei</i>	NW-Sulawesi, Indonesia	EU140854	-
ZSM20033821	<i>Elysia macnaei</i>	Sulawesi, Indonesia	-	GQ996689

06NZ01	<i>Elysia maoria</i>	Auckland (Waitemata Harbor), New Zealand	KM204233	KM086383
06Jam001	<i>Elysia marcusii</i>	Discovery Bay, Jamaica	KM204234	KM086384
09Gua01	<i>Elysia mercieri</i>	Bile Bay, Guam	-	KM086385
10Jap01	<i>Elysia minima</i>	Chinen (Okinawa), Japan	KM204235	KM086386
ENI1	<i>Elysia nigrocapitata</i>	Okinawa, Japan	DQ480175	DQ471226
ENI2	<i>Elysia nigrocapitata</i>	Okinawa, Japan	-	DQ471227
ENI3	<i>Elysia nigrocapitata</i>	Okinawa, Japan	-	DQ471228
09Jap01	<i>Elysia obtusa</i>	Kominato, Japan	KM204236	KM086387
EOB	<i>Elysia obtusa</i>	Okinawa, Japan	DQ480182	
EOB1	<i>Elysia obtusa</i>	Okinawa, Japan	-	DQ471259
CPIC00842	<i>Elysia orientalis</i>	Florida, United States	KP187839	KP187842
06Jam0001	<i>Elysia ornata</i>	Discovery Bay, Jamaica	JN819132	JN819093
EOR3	<i>Elysia ornata</i>	ambiguous in literature	DQ480177	-
EOR4	<i>Elysia ornata</i>	ambiguous in literature	DQ480178	DQ471261
EOR7	<i>Elysia ornata</i>	ambiguous in literature	DQ480179	DQ471262
EOR8	<i>Elysia ornata</i>	ambiguous in literature	DQ480180	DQ471263
EOR9	<i>Elysia ornata</i>	ambiguous in literature	DQ480181	-
04Swe04	<i>Elysia papillosa</i>	Sweetings Cay, Bahamas	JN819145	JN819108
06Tar01	<i>Elysia papillosa</i>	Florida, United States	KP187840	KP187843
07Pla04	<i>Elysia pratensis</i>	Plana Cays, Bahamas	KM204237	JN819112
EPR	<i>Elysia pratensis</i>	NA, Bahamas	DQ480162	-
EPR1	<i>Elysia pratensis</i>	NA, Bahamas	-	DQ471258
04Jap02	<i>Elysia pusilla</i>	NA, Japan	JN819152	-
07Aus01	<i>Elysia pusilla</i>	Coulom, Australia	JN819151	-
EPU11	<i>Elysia pusilla</i>	Hawaii, United States	DQ480201	-
0001	<i>Elysia pusilla</i>	NA, Australia	-	JQ914593
00014	<i>Elysia pusilla</i>	NA, Japan	-	JQ914606
08Jap01	<i>Elysia rufescens</i>	Sobe (Okinawa), Japan	KM204247	KC573688
ERU1	<i>Elysia rufescens</i>	ambiguous in literature	DQ480171	DQ471237
ERU6	<i>Elysia rufescens</i>	ambiguous in literature	DQ480172	DQ471238

06Lee03	<i>Elysia serca</i>	Lee Stocking Island, Bahamas	KM204248	-
ESR2	<i>Elysia serca</i>	NA, Bahamas	-	DQ471242
ESR3	<i>Elysia serca</i>	NA, Bahamas	DQ480192	DQ471243
ESR4	<i>Elysia serca</i>	NA, Bahamas	-	DQ471244
09Tha02	<i>Elysia singaporensis</i>	Western Johor Strait, Singapore	KM204249	-
07Aus001	<i>Elysia stylifera</i>	Point Cartright, Australia	GU191046	-
06Jam03	<i>Elysia subornata</i>	Discovery Bay, Jamaica	JN819135	JN819111
ESU25	<i>Elysia subornata</i>	Florida, United States	DQ480165	DQ471283
05Jap01	<i>Elysia sugashimae</i>	Sobe (Okinawa), Japan	KM204251	KM086399
10Jap001	<i>Elysia thompsoni</i>	Chinen (Okinawa), Japan	KM204252	JN819088
Es710LI	<i>Elysia tomentosa</i>	Lizard Island, Australia	EU140852	-
Es711LI	<i>Elysia tomentosa</i>	Lizard Island, Australia	EU140853	-
0845	<i>Elysia translucens</i>	Banyuls-sur-Mer, France	HM187602	HM187631
ETR1	<i>Elysia trisinuata</i>	Okinawa, Japan	DQ480174	-
Etri02Jap01	<i>Elysia trisinuata</i>	Hayama, Japan	KM204253	KM086401
ETU13	<i>Elysia velutinus</i>	ambiguous in literature	DQ480186	-
ETU2	<i>Elysia velutinus</i>	ambiguous in literature	DQ480184	DQ471249
ETU8	<i>Elysia velutinus</i>	ambiguous in literature	DQ480185	DQ471251
ETU25	<i>Elysia velutinus</i>	ambiguous in literature	-	DQ471250
05Ire01	<i>Elysia viridis</i>	Galway, Ireland	KM204254	KM086403
EVI	<i>Elysia viridis</i>	NA, Portugal	DQ480195	-
EVI3	<i>Elysia viridis</i>	NA, Portugal	-	DQ471211
07Swe01	<i>Elysia zuleicae</i>	Sweetings Cay, Bahamas	JN819146	JN819105
01Jap04	<i>Plakobranthus sp.</i>	Okinawa, Japan	-	KC573714
04Jap01	<i>Plakobranthus sp.</i>	Okinawa, Japan	KM204278	KC573718
09Gua06	<i>Plakobranthus sp.</i>	Bile Bay, Guam	KM204279	-

* City/Specific location and country where it was possible, just country, or not information available (NA). Ambiguous in literature means that information included different locations.