

Cytogenetic Evidence for Sex Chromosomes and Karyotype Evolution in Aguiomorphan Lizards

Barbora Augstenová, Eleonora Pensabene, Lukáš Kratochvíl and Michail Rovatsos *

Department of Ecology, Faculty of Science, Charles University, 12844 Prague, Czech Republic; augstenova.barbora@gmail.com (B.A.); pensabee@natur.cuni.cz (E.P.); kratoch1@natur.cuni.cz (L.K.)

* Correspondence: mirovatsos@gmail.com

Supplementary materials:

Table S1. Summary of studied species and number of examined individuals.

Family	Species	Male	Female	Unknown sex
Anguidae	<i>Abronia campbelli</i>	1	0	0
Anguidae	<i>Abronia dippei</i>	1	1	0
Anguidae	<i>Abronia graminea</i>	1	0	0
Anguidae	<i>Abronia lythrochila</i>	2	2	0
Anguidae	<i>Abronia mixteca</i>	1	0	0
Anguidae	<i>Abronia smithi</i>	1	0	0
Anguidae	<i>Abronia teaniata</i>	1	0	0
Anguidae	<i>Barisia rudicolis</i>	1	1	0
Anguidae	<i>Celestus warreni</i>	1	1	0
Anguidae	<i>Gerhonotus liocephalus</i>	1	0	0
Helodermatidae	<i>Heloderma exasperatum</i>	3	2	0
Helodermatidae	<i>Heloderma horridum</i>	3	2	0
Shinisauridae	<i>Shinisaurus crocodilurus</i>	1	1	2
Varanidae	<i>Varanus auffenbergi</i>	1	0	0
Varanidae	<i>Varanus cumingi</i>	1	2	0
Varanidae	<i>Varanus komaini</i>	1	1	0
Varanidae	<i>Varanus kordiensis</i>	0	1	0
Varanidae	<i>Varanus olivaceus</i>	3	2	0
Varanidae	<i>Varanus primordius</i>	1	0	1
Varanidae	<i>Varanus salvadori</i>	1	1	0
Xenosauridae	<i>Xenosaurus grandis</i>	1	0	0
Xenosauridae	<i>Xenosaurus platyceps</i>	0	0	2
Xenosauridae	<i>Xenosaurus rectocollaris</i>	0	2	0

Table S2. Primers and results of the qPCR test for estimating the sex chromosome constitution in the triploid *Varanus primordius*.

Gene name	Gene symbol	Primer name	Forward primer	Reverse primer	triploid to male gene dose ratio
MDS1 and EVI1 complex locus	<i>mecom</i>	mecom_5	AGGAGATTTTGTGAGGGCAAGA	GCTGTTGGAAAGGTAAGACCAG	1.00
double-stranded RNA-specific editase B2	<i>adarb2</i>	adarb2_1	CTGCTGGGAATGCGACTGG	GCCTTTCGGAGACTGTGGAG	0.97
glutamate receptor ionotropic, NMDA 3B	<i>grin3b</i>	grin3b_1	ATGGCGTAGCAGAGGTTGAG	GTGGGTGGGCATCTTCGTG	0.71