

TABLE III
MEAN INTERPHASE NUCLEAR AND CHROMOSOMAL VOLUMES AND DNA CONTENTS FOR LIVER
PARENCHYMAL CELLS OF 16 FROG AND 15 SALAMANDER SPECIES

Species	Code	Chromosome no. ^b	Interphase nuclear volume ^a (μm^3)	Nuclear DNA content (pg)	Interphase chromosome volume (μm^3)	Chromosome DNA content (pg)	References:	
							Volume	DNA
A. Anurans								
<i>Bombina bombina</i>	BBA	24	—	27.4	—	1.142	—	10
<i>Alytes obstetricians</i>	AO	38	253 (1)	21.0	7.03	0.583	43	10
<i>Xenopus laevis</i>	XL	36	125 (2)	7.5	3.47	0.208	°	10, 48, 49
<i>Scaphiopus bombifrons</i>	SB	26	—	2.4	—	0.092	—	10
<i>Bufo marinus</i>	BM	22	221 (1)	9.7	10.05	0.441	°	11, 35, 49, 50
<i>Bufo viridis</i>	BV	22	122 (2)	10.7	5.52	0.486	41, 42	49, 51
<i>Bufo fowleri</i>	BF	22	157 (1)	12.6	7.14	0.573	42	10, 35
<i>Bufo bufo</i>	BB	22	231 (3)	14.2	10.50	0.645	41-43	35, 49
<i>Bufo calamita</i>	BC	22	123 (2)	9.2	5.57	0.418	41, 42	10, 49, 50
<i>Bufo americanus</i>	BA	22	136 (1)	10.8	6.18	0.491	42	10
<i>Hyla squirella</i>	HSQ	24	137 (2)	10.4	5.71	0.433	°	11
<i>Hyla septentrionalis</i>	HSP	24	107 (3)	4.4	4.46	0.183	°	11
<i>Rana pipiens</i>	RP	26	168 (4)	15.0	6.46	0.577	°	47, 52-55
<i>Rana catesbeiana</i>	RC	26	225 (1)	15.2	8.65	0.585	°	10, 11
<i>Rana temporaria</i>	RT	26	129 (3)	8.8	4.96	0.338	43-45	49, 51, 54
<i>Rana esculenta</i>	RE	26	196 (1)	14.1	7.54	0.542	43	10, 48, 49

TABLE III continued

Species	Code	Chromosome no. ^b	Interphase nuclear volume ^a (μm^3)	Nuclear DNA content (pg)	Interphase chromosome volume (μm^3)	Chromosome DNA content (pg)	References:	
							Volume	DNA
B. Salamanders								
<i>Necturus maculosus</i>	NM	38	1784 (7)	196.8	46.95	5.18	°	10, 35, 55
<i>Necturus punctatus</i>	NP	—	—	264.0	—	—	—	10
<i>Necturus lewisi</i>	NL	—	—	270.0	—	—	—	10
<i>Proteus anguinus</i>	PA	38	1223 (2)	105.1	32.45	2.77	45, 46	10
<i>Ambystoma tigrinum</i>	AT	28	1104 (2)	85.3	39.43	3.05	°	10, 52
<i>Ambystoma mexicanum</i>	AMX	28	943 (2)	77.0	32.14	2.75	7°	10, 35, 52, 56, 57
<i>Amphiuma means</i>	AMN	28	3852 (1)	192.8	137.57	6.89	°	10, 12, 35, 52
<i>Notophthalmus viridescens</i>	NV	22	943 (2)	93.2	42.86	4.24	°	10, 35, 52, 58
<i>Taricha granulosa</i>	TG	22	716 (3)	—	32.55	—	°	—
<i>Triturus cristatus</i>	TC	24	697 (1)	52.5	29.04	2.19	46	10, 35, 54
<i>Triturus vulgaris</i>	TV	24	768 (4)	71.0	32.00	2.96	44	59
<i>Triturus alpestris</i>	TA	24	730 (2)	75.2	30.42	3.13	44	59
<i>Desmognathus fuscus</i>	DF	28	523 (2)	36.0	18.68	1.32	°	52
<i>Eurycea bislineata</i>	EB	28	1236 (2)	74.0	44.14	2.64	°	52
<i>Pseudotriton ruber</i>	PR	28	579 (2)	—	20.68	—	°	—

^a Number of animals used for each volume determination is given in parentheses.

^b Ref. 40.

^c This paper. Range of size (max/min): per nucleus, 36 \times vol and 112 \times DNA; per chromosome, 40 \times vol and 75 \times DNA.