

Lung-anatomical data for the species investigated.

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Wilfried Klein, Christian Reuter, Wolfgang Böhme, Steven F. Perry (2005):
 Lungs and mesopneumonia of scincomorph lizards (Reptilia: Squamata).

Org. Divers. Evol. 5(1): 47-57.

Table 3: Lung-anatomical data (presented as means \pm SD) for the species investigated: number of animals studied (N); length of respiratory system (L_{RS}) standardized to % of snout-vent length (SVL); length of lung (L_{Lu}) standardized to % SVL; length of trachea (L_{Tr}) standardized to % SVL; length of trachea (L_{Tr}) standardized to % L_{RS} ; length of extra-pulmonary bronchus (L_{Br}) standardized to % L_{RS} ; length of prehilary region (L_{Ph}) standardized to % L_{Lu} ; quotient of lung length over trachea length (L_{Lu}/L_{Tr}); quotient of length of left lung over length of right lung (L_{le}/L_{ri}); number of niches (N_{Ni}); number of tracheal cartilages (N_{TC}); parenchymal type (ed = ediculae, fav = faveoli); parenchymal distribution (het = heterogeneous, hom = homogeneous).

	N	L_{RS}/SVL	L_{Lu}/SVL	L_{Tr}/SVL	L_{Tr}/L_{RS}	L_{Br}/L_{RS}	L_{Ph}/L_{Lu}	L_{Lu}/L_{Tr}	L_{le}/L_{ri}	N_{Ni}	N_{TC}	Parenchymal	
												type	distrib.
		(%)	(%)	(%)	(%)	(%)	(%)						
Scincidae													
<i>C. ocellatus</i>	3	36.3 \pm 1.5	13.2 \pm 4.3	16.2 \pm 1.4	44.7 \pm 5.6	2.5 \pm 0.3	12.3 \pm 6.2	0.87 \pm 0.26	1.09 \pm 0.08	-	54.5 \pm 5.0	fav	hom
<i>M. brevicollis</i>	3	48.0 \pm 2.0	26.0 \pm 3.7	20.5 \pm 2.3	43.0 \pm 5.7	1.6 \pm 0.1	6.5 \pm 1.2	1.35 \pm 0.34	0.92 \pm 0.05	-	62.7 \pm 3.5	fav-ed	het
<i>N. algeriensis</i>	1	43.7	22.4	19.4	44.4	2.5	2.5	1.13	1.05	-	48.0	fav-ed	het

													Parenchymal	
	N	L _{RS} /SVL	L _{Lu} /SVL	L _{Tr} /SVL	L _{Tr} /L _{RS}	L _{Br} /L _{RS}	L _{Ph} /L _{Lu}	L _{Lu} /L _{Tr}	L _{lc} /L _{ri}	N _{Ni}	N _{TC}	type	distrib.	
		(%)	(%)	(%)	(%)	(%)	(%)							
Scincidae														
<i>S. scincus</i>	5	47.7±6.3	22.9±4.7	21.2±1.4	45.1±6.0	3.2±1.7	5.0±1.4	1.02±0.17	1.12±0.17	-	50.4±6.7	fav-ed	het	
<i>T. scincoides</i>	3	39.2±1.3	20.2±1.6	15.5±2.0	39.4±4.0	2.5±2.2	7.7±1.5	1.30±0.08	1.03±0.14	-	58.7±4.7	fav-ed	het	
<i>T. novaeguineae</i>	3	56.7±3.2	32.3±3.6	20.7±1.8	36.5±4.6	1.7±0.1	3.0±0.4	1.62±0.31	0.96±0.08	-	33.3±1.2	fav-ed	het	
Mean ± SD		45.3±7.3	22.8±6.3	18.9±2.5	42.2±3.5	2.3±0.6	6.2±3.6	1.2±0.3	1.0±0.1		51.3±10.3			
Cordylidae														
<i>C. anguina</i>	5	50.5±9.7	33.8±8.1	12.5±1.7	25.0±1.7	1.5±1.0	4.4±1.7	2.49±0.47	1.20±0.29	-	32.7±12.2	fav-ed	het	
<i>C. macrolepis</i>	3	37.2±10.2	29.0±6.1	10.6±0.8	29.2±5.9	2.8±0.8	8.4±1.1	2.50±0.42	1.04±0.07	-	39.0±1.4	fav-ed	het	
<i>C. cordylus</i>	5	51.6±1.7	23.4±2.6	25.5±1.4	50.8±3.7	4.2±2.6	12.9±4.2	0.86±0.18	1.03±0.15	8.4±2.1	54.4±3.4	fav-ed	hom	
<i>C. giganteus</i>	2	58.7±1.9	28.2±0.3	26.5±0.7	45.1±0.3	4.9±0.3	7.6±0.7	1.07±0.01	1.00±0.0	11.0±1.4	48.5±5.0	fav	hom	
<i>P. capensis</i>	4	49.5±2.1	26.5±2.9	23.6±2.1	47.6±2.4	7.9±0.7	16.4±1.8	1.15±0.04	0.96±0.08	-	56.8±2.8	ed	hom	
<i>P. guttatus</i>	1	46.3	22.0	24.4	52.6	5.3	11.1	0.9	1.0	-	66.0	ed	hom	
<i>P. melanotus</i>	3	49.1±0.8	17.6±1.3	25.7±3.6	52.2±6.5	8.2±2.4	6.4±0.2	0.68±0.11	1.04±0.07	-	52.0±4.6	fav	hom	
<i>P. microlepidotus</i>	1	49.2	21.5	24.6	50.0	7.8	7.1	0.88	1.0	-	52.0	ed	hom	
Mean ± SD		49.0±6.0	25.3±5.1	21.7±6.3	44.1±10.8	5.3±2.5	9.3±3.9	1.3±0.7	1.0±0.1		50.2±10.4			
Gerrhosauridae														
<i>G. nigrolineatus</i>	4	50.8±9.3	29.0±7.8	16.8±1.5	33.9±5.7	3.5±1.4	5.8±1.1	1.86±0.52	0.85±0.05	8.7±1.5	52.5±3.0	fav(-ed)	hom	
<i>T. seps seps</i>	3	37.2±6.0	20.3±3.7	16.4±1.9	44.9±8.9	4.6±0.7	10.4±4.4	1.0±0.0	1.0±0.0	0.0±0.0	46.7±4.0	fav	hom	
<i>T. petersi</i>	4	40.4±7.2	20.3±4.6	18.3±2.0	45.8±3.3	0.0±0.0	8.3±3.3	1.16±0.17	0.90±0.12	7.5±0.6	49.5±3.4	fav	hom	
<i>Z. madagascariensis</i>	6	43.4±3.3	22.7±3.1	18.2±0.6	42.1±2.0	4.6±2.4	9.6±1.5	1.18±0.16	1.13±0.18	12.4±0.9	51.2±4.1	fav	hom	
Mean ± SD		43.0±5.8	23.1±4.1	17.4±1.0	41.7±5.4	4.2±0.6	8.5±2.0	1.3±0.4	1.0±0.1	7.2±5.2	50.0±2.5			
Xantusiidae														
<i>L. flavimaculatum</i>	2	37.1±2.1	16.5±0.5	17.0±1.2	45.7±0.7	5.0±0.2	9.5±3.3	0.97±0.04	1.0±0.0	-	44.5±3.5	fav	hom	

													Parenchymal	
	N	L _{RS} /SVL	L _{Lu} /SVL	L _{Tr} /SVL	L _{Tr} /L _{RS}	L _{Br} /L _{RS}	L _{Ph} /L _{Lu}	L _{Lu} /L _{Tr}	L _{lc} /L _{ri}	N _{Ni}	N _{TC}	type	distrib.	
		(%)	(%)	(%)	(%)	(%)	(%)							
Lacertidae														
<i>G. galloti</i>	2	46.0	16.8	28.1	57.5±5.1	3.8±0.1	9.4±0.9	0.71±0.15	0.99±0.02	11.0±1.4	60.0±8.5	fav	hom	
<i>G. stehlini</i>	1	-	-	-	43.0	2.5	0.00	0.94	0.91	8.0	52.0	fav	hom	
<i>L. viridis</i>	2	49.5±0.0	21.2±7.1	23.2±0.0	44.9±2.9	2.0±0.0	5.5±6.4	0.94±0.35	1.0±0.0	9.3±0.6	52.0±7.1	fav	hom	
<i>P. algirus</i>	4	42.3±3.7	21.9±2.0	18.7±3.0	44.2±5.7	5.5±0.8	6.6±0.4	1.18±0.13	1.0±0.0	9.8±0.5	45.0±3.6	fav-ed	het	
<i>T. lepidus</i>	3	43.9±0.8	19.8±0.5	20.2±0.8	46.1±0.9	2.1±0.7	4.1±1.8	1.0±0.0	0.96±0.05	8.5±0.7	52.0±1.4	fav	hom	
Mean ± SD		45.4±3.1	19.9±2.3	22.6±4.1	47.1±5.9	3.2±1.5	5.1±3.5	0.9±0.2	1.0±0.04	9.3±1.2	52.2±5.3			
Teiidae														
<i>A. ameiva</i>	3	38.4±3.4	18.6±3.1	17.2±1.9	45.0±7.8	1.8±0.0	11.8±2.8	1.11±0.26	0.98±0.09	-	47.0±1.0	fav	hom	
<i>A. undulata</i>	2	44.3±4.3	22.4±2.0	19.5±1.5	44.1±1.0	2.6±0.0	10.4±0.1	1.19±0.10	0.94±0.16	-	51.5±5.0	fav	hom	
<i>C. maculatus</i>	3	48.2±3.9	21.4±3.8	27.0±0.7	56.3±6.3	0.9±0.0	14.7±2.3	0.81±0.12	0.96±0.11	-	70.3±2.5	fav	hom	
<i>C. lemniscatus</i>	3	41.4±0.5	17.6±1.2	20.7±1.6	50.1±4.5	1.0±0.0	8.5±1.4	0.91±0.16	0.90±0.10	-	46.0±2.7	fav	hom	
<i>C. lacertinus</i>	1	49.0	26.0	24.0	48.9	0.00	0.00	1.07	1.04	-	54.0	fav	hom	
<i>D. heterolepis</i>	1	40.5	19.0	19.8	48.9	0.00	10.9	1.00	0.91	-		fav	hom	
<i>T. teyou</i>	2	41.6±6.3	20.8±8.8	19.3±1.5	47.2±10.7	0.9±0.0	9.2±5.2	1.15±0.52	0.89±0.08	-	52.0±1.4	fav	hom	
<i>T. teguixin</i>	3	50.1±4.7	20.8±2.3	25.7±2.5	51.3±1.2	2.0±1.8	5.1±5.7	0.89±0.05	0.81±0.03	-	72.0±2.7	fav	hom	
Mean ± SD		44.2±4.4	20.8±2.6	21.7±3.9	49.0±3.8	1.2±0.9	8.8±4.5	1.0±0.1	0.93±0.07	-	56.1±10.6			
Gymnophthalmidae														
<i>A. atriventris</i>	1	35.6	12.1	19.8	55.6	2.8	3.1	0.64	0.91	-	36.0	fav	hom	
<i>A. bogotensis</i>	3	39.1±1.4	15.7±2.2	21.4±1.6	54.9±6.0	4.7±3.2	16.9±2.7	0.74±0.08	0.98±0.23	-	45.0±3.0	fav	hom	
<i>C. leiolepis</i> ^a	3	27.0	14.6±0.7	12.6	46.6	0.7	1.7±1.5	1.12	1.00	-	40.0	fav	hom	
<i>E. horrida</i>	5	44.0±3.9	16.0±5.9	22.9±0.7	52.4±5.5	2.7±0.8	10.8±2.5	0.66±0.38	0.95±0.23	9.5±0.7	44.0±1.6	ed	hom	
<i>N. rudis</i>	2	46.2±5.4	18.7±4.8	24.9±1.9	54.0±2.2	4.2±5.9	7.9±5.7	0.80±0.22	0.88±0.17	9.5±0.7	55.5±0.7	fav	hom	
<i>N. ablephara</i>	3	23.9±5.4	13.6±3.6	10.8±2.2	45.4±3.9	0.8±0.7	8.2±1.3	1.28±0.24	0.97±0.04	-	40.3±7.5	fav	hom	
<i>P. s. schreibersii</i>	1	37.9	13.6	21.7	57.1	3.6	0.00	0.63	1.00	-	41.0	fav	hom	

												Parenchymal	
	N	L _{RS} /SVL	L _{Lu} /SVL	L _{Tr} /SVL	L _{Tr} /L _{RS}	L _{Br} /L _{RS}	L _{Ph} /L _{Lu}	L _{Lu} /L _{Tr}	L _{lc} /L _{ri}	N _{Ni}	N _{TC}	type	distrib.
		(%)	(%)	(%)	(%)	(%)	(%)						
Gymnophthalmidae													
<i>P. affinis</i>	2	44.7±0.6	17.4±0.4	24.4±1.6	54.5±2.8	2.5±0.0	6.3±0.0	0.76±0.04	0.95±0.02	-	47.0±2.8	fav	hom
<i>P. argulus</i>	1	33.7	13.8	17.9	53.1	3.1	0.00	0.76	1.02	-	45.0	fav	hom
<i>P. erythrocerus</i>	2	16.8±23.8	13.9±0.8	18.8±0.0	55.9	5.9	5.1±3.2	0.72	1.06±0.12	-	42.0	fav	hom
<i>P. striatus</i>	2	35.5±3.3	14.2±2.9	18.2±2.3	51.2±1.7	7.0±3.5	12.5±0.0	0.73±0.0	1.13±0.18	-	43.5±2.1	fav	hom
<i>P. paeminosus</i>	2	-	13.5±1.0	-	-	-	6.7±3.1	-	0.89±0.03	-	-	fav	hom
<i>V. rubricauda</i>	3	39.1±0.3	15.3±1.8	20.1±1.5	51.5±4.3	1.72±0.3	10.9±3.9	0.86±0.04	0.93±0.06	-	39.0±1.4	fav	hom
Mean ± SD		35.3±8.9	14.8±1.8	19.4±4.3	52.7±3.6	3.3±1.9	6.9±5.0	0.8±0.2	1.0±0.1	-	43.2±4.9		

^a Measurements of the trachea are lacking for two specimens.