

Table 1. Presence or absence of respiratory bronchioles and interlobular septa in mammals

Order	Species	The number of lung lobes		Age <sup>a</sup>	Macroscopic image	Microscopic image		
		left	right		Polygonal pattern	Interlobular septa	Respiratory bronchioles	
Rodents								
	rat ( <i>Rattus norvegicus</i> )	1	4	up to 2 years	X	X	X	
	mouse ( <i>Mus musculus</i> )	1	4	up to 2 years	X	X	X	
	naked mole-rat ( <i>Heterocephalus glaber</i> )	3	4	2 years	X	X	X	
	gray squirrel ( <i>Sciurus carolinensis</i> )	NA	NA	3 years	NA	X	X	
	chinchilla ( <i>Chinchilla lanigera</i> )	NA	NA	7 years	X	X	X	
	capybara ( <i>Hydrochoerus hydrochaeris</i> )	2	4	7 years	X	X	○	
Primates								
	cynomolgus monkey ( <i>Macaca fascicularis</i> )	3	4	3–10 years	X	X	⊙	
	common marmoset ( <i>Callithrix jacchus</i> )	2	4	5 years	X	X	⊙	
	squirrel monkey ( <i>Saimiri sciureus</i> )	2-3	4	9 years (estimated)	– <sup>b</sup>	X	⊙	
Cetartiodactyla								
	Microminipig ( <i>Sus scrofa domesticus</i> ) †	2	4	0.5-4 years	○	⊙	○	
	domestic pig ( <i>Sus scrofa domesticus</i> ) †	2	4	4-7 months	○	⊙	○	
	goat ( <i>Capra Linnaeus</i> ) †	2	4	1- 4 years	○	○	⊙	
	cow ( <i>Bos taurus</i> ) †	2	4	2 months	○	⊙	⊙	
	reindeer ( <i>Rangifer tarandus</i> )	NA	NA	5 years	○	⊙	○	
	alpaca ( <i>Vicugna pacos</i> )	NA	NA	10 yeas (estimated)	○	○	○	
	pantropical spotted dolphin ( <i>Stenella attenuata</i> )	NA	NA	2-3 years (estimated)	X	X	X	
Perissodactyla								
	donkey ( <i>Equus asinus</i> )	NA	NA	11 days	○	⊙	X <sup>c</sup>	
	black rhinoceros ( <i>Diceros bicornis</i> )	NA	NA	36 years	○	⊙	X <sup>c</sup>	
Carnivora								
	Bengal tiger ( <i>Panthera tigris tigris</i> )*	NA	NA	19 years	X	X	⊙	
	Japanese raccoon dog ( <i>Nyctereutes viverrinus viverrinus</i> )	NA	NA	Unknown (adult)	X	X	⊙	
	Chinese wolf ( <i>Canis lipus chanco</i> )	NA	NA	Unknown (adult)	X	X	⊙	
Marsupialia								
	koala ( <i>Phascolarctos cinereus</i> )**	NA	NA	15 years	X	X	X <sup>c</sup>	

⊙: Remarkable; ○: Presence; X: Absence; –: Unable to determine; NA: Data not Available; a: Age of the experimental or housed animals; b: Congestion and hemorrhage; c: Not found due to unclear bronchiole structure in the prepared specimen.

†: The cranial lobe of the left lung is divided into cranial and caudal parts in pigs, whereas the cranial lobe is divided bilaterally in goats and cows.

\*: Kuramochi M, Izawa T, Hori M, *et al.* Chordoma of the thoracic vertebrae in a Bengal tiger (*Panthera tigris tigris*). J Vet Med Sci. 2015 Jul;77(7):893-5. doi: 10.1292/jvms.14-0658. Epub 2015 Mar 13.

\*\* : Kuwamura M, Murai F, Nishioka S, *et al.* Late onset cerebellar cortical degeneration in a koala. Aust Vet J. 2009 Aug;87(8):342-4. doi: 10.1111/j.1751-0813.2009.00463.x.