	Genus	Cteniogenys	Lazarussuchus					
Species		sp.	Monjurosuchus sp.	Philydrosaurus proseilus	lingyuanensis	halosaurus baitaigouensis	inexpectatus	
	number of tooth rows	?	1	2	1	?	?	
	width of the row	?	1 to 2	1 to 2	1 to 2	-	-	
Vomer	tooth tips	?	Straight	?	Straight	-	-	
	number of tooth rows	1	1	1	2?	-	1	
	width of the row	1	1	1 to 2	1 to 2	Present	1	
Palatine	tooth tips	Straight	Straight	?	?	-	-	
	number of tooth rows	1	2	2	2?	2	At least 1	
Pterygoid	width of the row	1 to 6	1	L* (2 to 3); M* (1 to 3 or 4)	? 1 to 2 1		1	
	tooth tips	Posteriorly curved	Random directions	?	?	?	-	
	number of tooth rows	1	Absent	?	?	?	?	
Pterygoid flange	width of the row	1 to 3	-	-	-	-	-	
	orientation of tooth tips	Straight	-	-	-	-	-	
Parasphenoid Palatal tooth morphology		Absent Conical	Absent Conical	Absent	? Conical	?	?	
Tooth enamel		Limited to the tip and striated	?	?	?	?	?	
Tooth size		?	The teeth are smaller in posterior elements, but within the pterygoid, medial row is larger than the lateral row (particularly in posterior part).	?	?	?	?	
Start point of the vomerine row		?	Close to premaxilla	Close to premaxilla	Close to premaxilla	?	?	
Posterior end of the pterygoid tooth row		Posterior to marginal tooth row	?	Posterior to marginal tooth row	?	?	?	
Nasopalatal trough		Absent	Absent	Present	?	?	?	
Location of choana (against marginal tooth row length)		44.4%	?	44.4%	40.1%	?	About half way along the marginal tooth row	
Pterygoid flange		45	40	35	?	?	?	
References or examined spesimens		BMNH R11759 and UCL uncataloged specimens	IVPP V14261	Gao et al., 2007	Gao et al., 1999; IVPP V11705	Gao and Ksepka, 2008	Hecht, 1992	

Summary of palatal dentition in Choristodera

* M, medial tooth row: Ma, anteromedial tooth row: Mp, posteromedial tooth row: L, Lateral tooth row: La, anterolateral tooth row; Lp, posterolateral tooth row

Genus		Tchoria Ikechosaurus Simoedosaurus						
species		namsarai	klauseni	sunalinae	lemoinei	sp.	dakotensis	
	number of tooth rows	1	1	1	1	1	1	
	width of the row	1	7	1 to 2	1 to about 8	1 to 6	1 to about 9	
Vomer	tooth tips	Straight ?		Straight or posteriorly curved	Posteriorly curved	Straight or posteriorly curved in anterior tooth row; posteriorly curved in posterior tooth row		
	number of tooth rows	1	1	1	1	1	1	
	width of the row	1 to 2 (or3)	1 to 3 (or 4)	1 to 2	1 to 16	1 to 11	1 to about 21	
Palatine	tooth tips	?	?	Posteriorly curved	Sharp, posteriorly curved	Straight in anterior tooth row, but posteriorly curved in posterior row	Straight in anterior tooth row, but posteriorly curved in posterior tooth row	
	number of tooth rows	2	1	2	2	2	2	
Pterygoid	width of the row	L* (more than 1); M* (3 to 4)	maximum 7 (L* or M*)	L* (1 to 10); M* (3 to 7)	L * and M* (1 to 15)	L* (1 to 12); M* (1 to 14)	L* (1 to 21); M* (1 to 16)	
	tooth tips	Straight	?	Posteriorly curved in anterior tooth row, but medially curved in posterior row	Sharp, posteriorly curved	Sharp, posteriorly curved	Straight and posteriorly curved	
	number of tooth rows	1	?	1	1	1	1	
Pterygoid flange	width of the row	At least 2	-	1 to 5	?	1 to 11	2 to 18 (or 19)	
	orientation of tooth tips	?		medially curved	?	Medially curved	Medially curved	
Parasphenoid Palatal tooth morphology		Absent Conical	?	1 Conical, sharp tip	Absent Conical, sharp, curved tip	Absent Conical, sharp, curved tip	Absent Conical but slightly rounded tip	
Tooth enamel		?	?	Strong ridges in both sides	Exposed area above alveolus covered by weak striations but enamel cover on base is uncertain.		Covered on tips	
Tooth size		Equal on vomer and palatine	?	Generally large anteriorly, small posteriorly, but lateral pterygoid tooth row is larger than the medial row. Pterygoid flange teeth are laterally large.	than posteriorly, but lateral pterygoid tooth row posteriorly, but lateral pterygoid		Generally large anteriorly, small posteriorly, but lateral pterygoid tooth row is larger than the medial row. Pterygoid flange teeth become larger anterolaterally.	
Start point of the vomerine row		3 marginal tooth positions anterior to choana	4 marginal tooth positions anterior to choana	anterior to the choana	4 maxillary tooth positions anterior to the choana	4 or 5 maxillary tooth positions anterior to the choana	2 maxillary tooth positions anterior to the choana	
Posterior end of the pterygoid tooth row		Posterior to the marginal tooth row	Same level as the marginal tooth row	Posterior to the marginal tooth row	Posterior to the marginal tooth row	Posterior to the marginal tooth row	Posterior to the marginal tooth row	
Nasopalatal trough		Present	Present	Present	Present	Present	Present	
Location of choana (against marginal tooth row length)		40.4%	?	?	44.0%	47.1%	40.9%	
Pterygoid flange		10	?	30	?	30	20	
References or examined spesimens		HMNS 960720; Efimov, 1975, Efimov and Storrs, 2000	Ksepka et al., 2005	IVPP V9611-3	MNHN BR 1935	SMNS 59026	SMM P76.10.1	
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Summary of palatal dentition in Choristodera

* M, medial tooth row: Ma, anteromedial tooth row: Mp, posteromedial tooth row: L, Lateral tooth row: La, anterolateral tooth row; Lp, posterolateral tooth row

Summary of palatal demilion in Chonstodera	Summary of	palatal dentition in Chorist	iodera
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	Genus					Champsosaurus				
	species	lindoei	albertensis	laramiensis	ambulator	natator	dolloi	gigas	tenuis	sp.
	number of tooth rows	1	1	1	1	1	1	1	1?	1
	width of the row	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 4	1 to 4	1 to 2	1 to 2
Vomer	tooth tips	Straight in anterior row, posteriorly curved in posterior row (RTMP87.36.41) ; all teeth posteriorly curved (RTMP94.163.01)	Straight and posteriorly curved	?	?	Straight	?	Straight in anterior row, posteriorly curved in posterior row	?	Straight or posteriorly curved
	number of tooth rows	1	1	1	1	1	1	1	1?	1
	width of the row	1 to 2 (only one in RTMP94.163.01)	1 to 3	1 to 5	4 to 7	1 to 2	1 to 2	1 to 4	At least 1 to 3	1 to 2
Palatine	tooth tips	Straight (RTMP87.36.41); posteriorly curved (RTMP94.163.01)	Random directions but mostly straight	?	?	?	Straight	Tips straight and rounded (might be worn) in anterior row, but sharp and posteriorly curved in posterior row		Straight
Pterygoid	number of tooth rows	2	2	2	2	2	4	3 (1lateral, 2 medial rows)	at least 1	4 (2 lateral, 2 medial)
	width of the row	L (1 to 3); M (1 to 2) in RTMP 87.36.41 LM(1 to 2) in RTMP94.163.01	L* (1 to 3 or 4); M* (1 to 2)	L*(1 to 5); M* (1 to 3)	L* (4 to 8); M*(2 to 7)	L*(1 to 3); M*(1 to 4)	La* (2 to 6); Lp*(1); Ma* (3); Mp* (1)	L* (1 to 3 or 4); Ma*(1 to 8); Mp*(1 to 3)	1 to 7 (or 9)	La*(1); Lp*(1); Ma*(1); Mp*(1)
	tooth tips	Straight (RTMP87.36.41); posteriorly curved (RTMP94.163.01)	Random directions	?	?	?	?	Posteriorly curved in posterior row	Straight or posteriorly curved	?
	number of tooth rows	1	?	1	1	?	?	1	1	1
Pterygoid flange	width of the row	1 to 3 in RTMP 87.36.41 1 to 2 in RTMP94.163.01	-	1 to 3	2 to 3	?	?	1 to 2	1 to 2	1 to 2
	orientation of tooth tips	Straight?	-	?	?	?	?	Straight	?	Straight
Parasphenoid		Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Palatal tooth morpholog	IY	Conical	Conical	?	Conical	Conical	?	Conical	Conical	Conical
Tooth enamel		Teeth colour changes to black while base is brown which may imply a border between the enamel and dentine.	Teeth colour changes to black while base is brown which may imply a border between the enamel and dentine. Strong ridges on each side and numerous weak lines	?	?	?	?	Possiblly enamel cover on two-thirds of the tooth crown with weak striation.	?	?
Tooth size		Generally large anteriorly, small posteriorly, but lateral pterygoid tooth row is larger than the medial row. In pterygoid flange teeth are laterally large but not much difference in anterior and posterior	Generally large anteriorly, small posteriorly, but lateral pterygoid tooth row is larger than the medial row.	?	?	Generally large anteriorly, small posteriorly. Pterygoid lateral row larger than the medial row	?	Generally large anteriorly, small posteriorly, but lateral pterygoid tooth row is larger than the medial row.	?	Generally large anteriorty, small posteriorly.
Start point of the vomerine row		4 marginal tooth positions anterior to choana	4 marginal tooth positions anterior to choana	2 marginal tooth positions anterior to choana	?	4 marginal tooth positions anterior to choana	5 marginal tooth positions anterior to choana	3 marginal tooth positions anterior to choana	?	7 marginal tooth positions anterior to choana
Posterior end of the pterygoid tooth row		Posterior to the marginal tooth row	Posterior to the marginal tooth row	Posterior to the marginal tooth row	Posterior to interpterygoid vacuity	Posterior to the marginal tooth row	Posterior to suorbital fenestra	Posterior to the marginal tooth row	Posterior to the marginal tooth row	Posterior to the marginal tooth row
Nasopalatal trough		Present	Present	Present	Present	Present	Present	Present	Present	Present
Location of choana (against marginal tooth row length)		?	65.0%	More than 50 %	More than 50 %	65.2%	?	70.4%	79.4%	80.3%
Pterygoid flange		20	?	30	?	20	?	20	?	30
References or examined spesimens		RTMP 87.36.41; 94.163.01	RTMP 86.12.11	Brown 1905; Sigogneau-Russell, 1979	Sigogneau- Russell, 1979	NMC 8919	IRSNB R21, 1568, 3662	SMM P77.33.24	SMM P79.14.1	MNHN BR-9-P

* M, medial tooth row: Ma, anteromedial tooth row: Mp, posteromedial tooth row: L, Lateral tooth row: La, anterolateral tooth row; Lp, posterolateral tooth row