

Appendix1

1	<i>arcus superciliaris</i> fused at <i>Glabella</i>			
	0 : no	1 : yes		
2	closing of the <i>sulcus supraorbitalis</i>			
	0 : no sulcus	1 : incomplete fusion of the <i>arcus superciliaris</i> and the <i>arcus supraorbitalis</i>	2 : <i>sulcus</i> present	
3	relief of the upper edge of the <i>arcus superciliaris</i>			
	0 : absent or weak	1 : strong		
4	continuity of the <i>sulcus postorbitalis</i>			
	0 : no sulcus	1 : interrupted medially	2 : complete edge to edge	
5	<i>depressio postorbitale laterale</i>			
	0 : absent	1 : present		
6	shape of the frontal edge in <i>norma facialis</i>			
	0 : linear	1 : convex upwards		
7	glabellar depression in <i>norma facialis</i>			
	0 : absent	1 : present		
8	shape of the frontal edge in <i>norma verticalis</i>			
	0 : linear	1 : convex frontwards		
9	position of the glabellar area relatively to the frontal edge in <i>norma verticalis</i>			
	0 : back	1 : same level	2 : in front	
10	microdepression at <i>Glabella</i> in <i>norma verticalis</i>			
	0 : absent	1 : present	? : indetermined see "0" of the feature 9	
11	continuity of the <i>torus supraorbitalis</i>			
	0 : torus absent	1 : medially interrupted	2 : complete edge to edge	
12	relative thickness of the orbital arc			
	0 : lateral >medial>central	1 : medial>lateral>central	2 : central>lateral>medial	3 : medial>central>lateral
13	widness of the temporal band on frontal			
	0 : weak	1 : wide		
14	salience of the temporal band on frontal			
	0 : weak	1 : strong and saliant		
15	tubercle at <i>Frontotemporale</i>			
	0 : absent	1 : present		

16	metopic crest	0 : absent	1 : present			
17	supraglabellar tubercle	0 : absent	1 : present			
18	metopic keeling	0 : absent	1 : present at posterior half	2 : present for all frontal	3 : present at anterior 3/4	4 : present on 2nd and 3rd quarters
19	importance of the keeling	0 : weak	1 : strong	? : undetermined see "0" of the feature 18		
20	development of the keeling	0 : parallel edges	1 : wider and flatter backwards	? : undetermined see "0" of the feature 18		
21	bregmatic eminence	0 : absent	1 : present			
22	upper coronal reinforcement	0 : absent	1 : present	2 : present and goes forwards laterally		
23	precoronal depression	0 : absent	1 : precoronal flatness	2 : present		
24	tuber frontale	0 : absent	1 : present medially shifted	2 : present on the middle lateral part of the scale	3 : present laterally shifted	
25	supratrigonal depression	0 : absent	1 : present			
26	sagital crest	0 : absent	1 : present			
27	sagittal keeling on the first half of the parietal	0 : absent	1 : anterior part	2 : posterior part	3 : complete	? : undetermined see "1" of the feature 26
28	obeliac depression	0 : keeling on the 3rd quarter	1 : no keeling on the 3rd quarter	2 : present		
29	prelambdatic depression	0 : keeling on the 4th quarter	1 : no keeling on the 4th quarter	2 : present		
30	importance of the keeling	0 : weak	1 : strong	? : undetermined see "1" of the feature 26	? : undetermined see "0" of the feature 27	? : undetermined see "1" or "2" of the feature 28

31	postcoronal depression	0 : no perturbation of convexity	1 : postcoronal flatness	2 : present	
32	salience of the temporal band	0 : not visible	1 : distinct but weak	2 : salient	
33	wideness of the temporal band	0 : wide	1 : narrow		
34	thrust of the temporal band after the coronal suture	0 : absent	1 : present		
35	height of the temporal band	0 : up	1 : low		
36	<i>processus asteriacus</i>	0 : absent	1 : present		
37	asteriac depression	0 : absent	1 : present		
38	<i>tuber parietale</i>	0 : absent	1 : central	2 : laterally shifted	
39	<i>tuber angularis</i> cf Zeitoun (2009)	0 : absent	1 : present		
40	posterior depression after the <i>linea temporale superior</i>	0 : absent	1 : present		
41	depression between the two <i>linea temporale</i>	0 : absent	1 : present		
42	courbure of <i>planum occipitale</i> in <i>norma lateralis</i>	0 : concave backwards	1 : convex backwards		
43	shape of the upper scale in <i>norma occipitalis</i>	0 : pentagonal to round	1 : triangular		
44	curvature of the <i>planum nuchale</i> in <i>norma lateralis</i>	0 : convex posteriorly	1 : plane to lightly concave posteriorly		
45	shape of the <i>torus occipitalis</i> in <i>norma occipitalis</i>	0 : absent	1 : convex upwards	2 : linear	3 : concave upwards

46	importance of the <i>torus occipitalis</i>	0 : weak	1 : strong		
47	lateral extention of the <i>torus occipitalis</i>	0 : median	1 : transverse	?	: undetermined see "0" of the feature 45
48	continuity of the <i>torus occipitalis</i> with the <i>crista supramastoidea</i>	0 : no link	1 : continuous	?	: undermined see "0" of the feature 45 and "0" of the feature 47
49	continuity of the <i>torus occipitalis</i> with the <i>crista mastoidea</i>	0 : no link	1 : continue	?	: undermined see "0" of the feature 45 and "0" of the feature 47
50	continuity of the <i>torus occipitalis</i> with the <i>linea temporale superior</i>	0 : no direct link	1 : continuity	?	: undermined see "0" of the feature 45 and "0" of the feature 47
51	continuity of the <i>sulcus occipitalis</i> on the whole <i>squama</i>	0 : no sulcus	1 : discontinuity	2 :	continuity
52	lateral depressions on the <i>sulcus occipitalis</i>	0 : absent	1 : present	?	: undetermined see "0" of the feature 51
53	occipital bun	0 : absent	1 : sharp angled bun	2 :	bun "en coin"
54	extension of the <i>protuberantia occipitalis externa</i>	0 : absent	1 : present		
55	extension of the <i>tuberculum linearum</i>	0 : absent	1 : moderate	2 :	strong
56	medial concavity of the occipital lip up to the <i>tuberculum linearum</i>	0 : absent	1 : depression	?	: undetermined see "0" of the feature 55
57	<i>crista occipitalis externa</i>	0 : absent	1 : present		
58	shape of the sus-iniac fossa	0 : no fossa	1 : as wide as high	2 :	wider than high
				3 :	very wide
59	shape of the lateral part of the sus-iniac fossa	0 : convergent upwards	1 : parallel or arched	2 :	divergent upwards
				?	: undetermined see "0" of the feature 58
60	<i>processus retromastoideus</i>	0 : absent	1 : present		

61	<i>crista occipitomastoidea</i>	0 : absent	1 : present	
62	height of the temporal squama compared with the vault	0 : up	1 : low	
63	shape of the temporal squama	0 : polygonal to round	1 : triangular	
64	shape of the anterior temporal edge	0 : rounded to sinusoid	1 : linear	
65	shape of the upper edge of the temporal squama	0 : rounded to sinusoid	1 : linear	
66	strength of the <i>crista supramastoidea</i> at <i>porion</i>	0 : weak	1 : strong	
67	relation between the <i>crista supramastoidea</i> and the <i>processus zygomaticus</i> in lateral view	0 : <i>crista supramastoidea</i> shifted	1 : continuity	
68	continuity of the <i>crista supramastoidea</i> with the <i>linea temporalis inferior</i>	0 : no direct link	1 : continuity	
69	<i>tuberculum supramastoideum anterius</i>	0 : absent	1 : present	
70	strength of the <i>crista mastoidea</i>	0 : weak	1 : strong	
71	continuity between the <i>crista mastoidea</i> and the <i>linea temporalis superior</i>	0 : no direct link	1 : continuity	
72	<i>sulcus supramastoidea</i>	0 : closed posteriorly	1 : open posteriorly	? : undetermined see "0" of 73
73	importance of the <i>sulcus supramastoidea</i>	0 : absent	1 : narrow	2 : wide
74	convergence frontwards of the <i>crista mastoidea</i> and <i>crista supramastoidea</i>	0 : divergent frontwards	1 : parallel	2 : convergent frontwards
75	<i>tuberculum supramastoideus posterior</i>	0 : absent	1 : present	

76	<i>tuberculum mastoideum anterius</i>	0 : absent	1 : present	
77	<i>spina suprameatum</i>	0 : absent	1 : present	
78	section of the tympanal in <i>norma lateralis</i>	0 : rounded	1 : ellipsoid to ovoid	
79	orientation of the main axis of the tympanal in <i>norma lateralis</i>	0 : down frontwards	1 : vertical	2 : down backwards
80	thickness of the tympanal in <i>norma lateralis</i>	0 : weak	1 : strong	
81	contribution of the tympanal to the posterior wall of the <i>fossa mandibularis</i>	0 : the <i>processus postglenoidalis</i> is strongly involved in the wall	1 : the tympanal makes quite the whole wall	? : undetermined see "0" of the feature 119
82	convexity of the posterior wall of the <i>fossa mandibularis</i>	0 : planoconcave frontwards	1 : convex frontwards	
83	relative development of the <i>processus mastoideus</i> in <i>norma lateralis</i>	0 : do not stand out against the base	1 : stand out against the base	
84	volume of the the <i>processus mastoideus</i>	0 : weak	1 : bulky	
85	development of the <i>tuberculum articulare</i> in <i>norma basilaris</i>	0 : weak	1 : large	
86	salience of the <i>tuberculum articulare</i>	0 : weak or not salient	1 : salient	
87	extension of the under temporal plan	0 : no under temporal plan precedes the articular surface of the glenoidal cavity	0 : an under temporal plan precedes the articular surface of the glenoidal cavity	
88	<i>tuberculum anterius fossae mandibularis</i>	0 : absent	1 : present	
89	space between the tympanal and the anterior part of the <i>processus mastoideus</i>	0 : posterior part of the tympanal and anterior part of the <i>processus mastoideus</i> are fused	1 : groove	2 : wide space
90	sagittal length of the <i>fossa mandibularis</i>	0 : short	1 : long	

91	deepness of the <i>fossa mandibularis</i>	0 : not deep	1 : deep	
92	size of the posterior slope of the <i>tuberculum articulare</i> relatively to the temporo-mandibular joint	0 : the slope is weak	1 : the slope is medium	2 : the slope is strong
93	orientation of the <i>processus mastoideus</i>	0 : not oriented inwards	1 : oriented inwards	
94	deepness of the <i>incisura mastoidea</i>	0 : no incisura mastoidea	1 : not deep	2 : deep
95	antero-posterior length of the <i>incisura mastoidea</i>	0 : short	1 : long	? : undetermined see "0" of the feature 94
96	breadth of the <i>incisura mastoidea</i>	0 : narrow	1 : wide	? : undetermined see "0" of the feature 94
97	shape of the transversal section of the <i>incisura mastoidea</i>	0 : round	1 : "U" shaped	2 : "V" shaped ? : undetermined see "0" of the feature 94
98	size of the eminence of Rouviere	0 : no eminence	1 : weak	2 : important
99	importance of the <i>fissura glaseri</i>	0 : no fissura glaseri	1 : wide	2 : narrow
100	deepness of the <i>fissura glaseri</i>	0 : shallow	1 : deep	? : undetermined see "0" of the feature 99
101	division of the <i>fissura glaseri</i>	0 : no prolongation of the <i>tegmen tympani</i>	1 : the prolongation of the <i>tegmen tympani</i> divides the median part of the fissura glaseri	? : undetermined see "0" of the feature 99
102	importance of the deepness between the tympanic plate and the entoglenoidal formation (<i>spina entoglenoidalis</i> or <i>processus entoglenoidalis</i>)	0 : fused	1 : groove	2 : space
103	obliquity of the anterior wall of the <i>fossa mandibularis</i>	0 : the anterior wall is quite horizontal	1 : obliquity	2 : quite vertical
104	relative size of the entoglenoidal formation to the <i>tuberculum zygomaticum anterior</i>	0 : very important relatively to the <i>tuberculum zygomaticum anterior</i>	1 : big relatively to the <i>tuberculum zygomaticum anterior</i>	2 : small relatively to the <i>tuberculum zygomaticum anterior</i>
105	relative position of the entoglenoidal formation to the <i>tuberculum zygomaticum anterior</i>	0 : the entoglenoidal formation is at the same level than the <i>tuberculum zygomaticum anterior</i>	1 : the entoglenoidal formation is posterior to the <i>tuberculum zygomaticum anterior</i>	2 : the entoglenoidal formation is very posterior to the <i>tuberculum zygomaticum anterior</i>

106 relative size of the entoglenoidal formation and of the *tuberculum zygomaticum* anterior to the *tuberculum articulare*

0 : very large relatively to the *tuberculum articulare* 1 : large relatively to the *tuberculum articulare* 2 : small relatively to the *tuberculum articulare*

107 relative position of the entoglenoidal formation and the *tuberculum zygomaticum* anterior to the *fossa mandibularis*

0 : median to the *fossa mandibularis* 1 : anterior to the *fossa mandibularis* 2 : very anterior to the *fossa mandibularis*

108 antero-posterior convexity of the *tuberculum articulare*

0 : the *tuberculum articulare* is plane in *norma lateralis* 1 : the *tuberculum articulare* has a big round arc 2 : the *tuberculum articulare* has a small round arc

109 infero transversal concavity of the *tuberculum articulare*

0 : the *tuberculum articulare* is plane in *norma frontalis* 1 : the *tuberculum articulare* has a big radius of curvature in *norma frontalis* 2 : the *tuberculum articulare* has a small radius of curvature in *norma frontalis*

110 shape of the posterior edge of the *tuberculum articulare*

0 : the posterior edge is quite rectilinear in *norma basilaris* 1 : the posterior edge is arched in *norma basilaris* 2 : the posterior edge is sigmoid in *norma basilaris*

111 relation between entoglenoidal formation and the *tuberculum articulare*

0 : the entoglenoidal formation is distinct from the *tuberculum articulare* 1 : the entoglenoidal formation is included in the *tuberculum articulare*

112 continuity between the under temporal plan and the posterior slope of the *tuberculum articulare*

0 : the two plan are continuous 1 : there is an angulation between both plans

113 importance of the *fossa mandibularis*

0 : the *fossa mandibularis* is very large 1 : the *fossa mandibularis* is large 2 : the *fossa mandibularis* is medium 3 : the *fossa mandibularis* is short

114 antero-posterior concavity of the *fossa mandibularis*

0 : big radius of curvature to plane 1 : round 2 : pinched round

115 Existence of a *crista ectoglenoidalis* on the lateral edge of the *fossa mandibularis*

0 : no *crista ectoglenoidalis* 1 : *crista ectoglenoidalis*

116 relative size of the entoglenoidal formation to the edge of the sphenoidal

0 : the entoglenoidal formation is bigger 1 : the entoglenoidal formation is equivalent to the the edge of the sphenoid 2 : the entoglenoidal formation is smaller

117 salience of the entoglenoidal formation

0 : very salient 1 : not salient

118 lateral extension of the entoglenoidal formation

0 : very extended backward 1 : meanly extended backward 2 : not extended backward 3 : tubercle 4 : not extended backward nor tubercle

119 size of the *processus postglenoidalis*

0 : no *processus postglenoidalis* 1 : small *processus postglenoidalis* 2 : medium *processus postglenoidalis* 3 : big *processus postglenoidalis*

120 transversal extension of the *processus postglenoidalis*

0 : weak to very weak 1 : medium 2 : big 3 : very big

121 lateral shift of the *processus postglenoidalis* with the lateral edge of the tympanal
0 : the *processus postglenoidalis* doesn't overlap 1 : the *processus postglenoidalis* overlap

? : undetermined due to "0" of the feature 119

122 shape of the *processus postglenoidalis* in *norma facialis*
0 : triangular 1 : round

2 : plan

? : undetermined due to "0" of the feature 119

123 shape of the *processus postglenoidalis* in *norma lateralis*
0 : triangular 1 : round

2 : plan

? : undetermined due to "0" of the feature 119