

CONTENTS

INTRODUCTION	1	Mandible	30
		Lateral View	30
THE BIOLOGY OF THE CHARACTERS	3	THE CHARACTERS	31
Embryology	3	Frontal view	31
Anatomy	4	Frontal sinus	31
Genetics	5	Orbital opening	34
Variations within populations	9	Nasal cavities	36
Sex differences	9	Maxillary sinus	38
Age dependence	9	Metopic suture	41
Symmetry	10	Supranasal suture	44
Laterality	10	Metopic fissure	46
Inter-trait associations	11	Frontal grooves	48
Adaptiveness	11	Supraorbital osseous structures	51
Variation among populations	12	Ethmoidal foramina	58
Medical relevance	13	Trochlear spine	64
Genetic conditions in which skull growth is affected	14	Nasal foramina	66
		Infraorbital suture	67
		Infraorbital foramen	70
		Zygomaxillary tubercle	74
METHODOLOGY	16	Superior and Posterior view	78
Scoring and analysis	16	Parietal foramen	78
Some statistical considerations	17	Symmetrical thinness of the parietal bones	83
TYPES OF CHARACTERS	19	Sutures of the cranial vault	84
A. Facial cavities	19	Inca bone	99
B. Sutures (shape, persistence), sutural and fontanelle ossicles	19	Highest nuchal line	104
C. Spines, tubercles, tori	19	Retromastoid process	107
D. Notches, depressions, grooves, osse- ous bridges, foramina, canals	20	Basal view	110
E. Miscellaneous	21	Atlas bridging	110
GUIDE TO THE USE OF THE ATLAS	21	Occipital foramen	112
Indications to photographs	21	Condylar canal (foramen)	114
Indications to the methodologies	21	Condylar facet double	116
Indications to references in the text and tables	21	Hypoglossal canal	120
GENERAL LOCATION OF CHARACTERS	25	Intermediate condylar canal	126
Frontal View	25	Paracondylar process	128
Superior View	25	Jugular foramen bridging	130
Occipital View	28	Precondylar tubercle	134
Basal View	28	Pharyngeal tubercle	136
Internal View	30	Pharyngeal foveola	137
		Median basilar canal	139
		Craniopharyngeal canal	141
		Apertures in the tympanic plate	143

Petrosquamous emissaries	148	Mastoid foramen	201
Retropterygoid apertures in the greater wing	149	Squamomastoid suture	206
Basal sphenoid bridges	156	Parietal notch bone	207
Sella bridges	162	Epipteric bone	210
Lesser palatine foramina	163	Fronto-temporal articulation	216
Palatine bridging	166	Squamous ossicles	220
Transverse palatine suture	172	Os japonicum	222
Palatine torus	174	Zygomatico-facial foramen	224
Maxillary torus	180	Marginal tubercle	226
Mandibular torus	182	Mandible	230
Lateral view	186	Mental foramen	230
Auditory torus	186	Mylohyoid bridge	234
Suprameatal spine and depression	188	Genial tubercles, median mental spine and genial pit	236
Middle meningeal artery emissaries	191	Accessory apertures in the ramus man- dibulae	240
Divided parietal bone	192		
Partitioned temporal squama	193	ACKNOWLEDGEMENTS	244
Biasterionic suture	194	BIBLIOGRAPHY	245
Ossicle at asterion and occipitomastoid wormians	196	INDEX	288