

Contents

1	Imaging Technique	1
	Imaging Microscopy	1
	CT Microscopy	1
	MR Microscopy	1
	Clinical Imaging	2
	Multidetector CT	2
	High Field MR	2
	Postprocessing	3
	References	5
2	Anatomy	7
	Surface Anatomy	7
	Skin Surface	7
	Bone Surface	7
	Bony External Auditory Canal and Tympanic Membrane	9
	Middle Ear Space	9
	The Auditory Ossicles	11
	The Inner Ear	11
	Reference	28
3	Multiplanar Atlas	29
	Temporal Bone Imaging: Historical Perspectives	29
	The Axial Plane (in the Plane of the Lateral Semicircular Canal)	30
	The Coronal Plane (Perpendicular to the Plane of the Lateral Semicircular Canal)	40
	Pöschl Plane (Short Axis Plane of the Temporal Bone)	51
	Stenvers Plane (Long Axis Plane of the Temporal Bone)	64
	References	74
4	Advanced Imaging Applications	75
	References	96

5 Imaging Microscopy of the Temporal Bone: An Anatomy Tutorial . . .	97
Introduction	97
Temporal Bone Anatomy Tool	97
Virtual Endoscopy Video Player	97
Glossary	99
Index	107