

# Contents

1	Introduction	
	CHRISTIAAN SCHIEPERS.....	1
	<b>Clinical Applications .....</b>	<b>5</b>
2	Neurochemical Imaging with Emission Tomography: Clinical Applications	
	GIANNI LUCIGNANI and JAMES J. FROST.....	7
3	Assessment of Myocardial Viability by Radionuclide Techniques	
	ROXANA CAMPISI, F. Y. J. KENG, and HEINRICH R. SCHELBERT.....	39
4	Thrombo-Embolism Imaging	
	HENRY D. ROYAL and DAVID A. HILLIER .....	61
5	Renal Imaging	
	FRANÇOIS JAMAR and RAFFAELA BARONE.....	83
6	Skeletal Scintigraphy	
	CHRISTIAAN SCHIEPERS.....	101
7	Imaging Infection and Inflammation	
	HUUB J. J. M. RENNEN, CHANTAL P. BLEEKER-ROVERS, and WIM J. G. OYEN.....	113
8	Gastrointestinal Nuclear Medicine	
	JEAN-LUC C. URBAIN .....	127
9	Hepatobiliary Scintigraphy	
	MARK TULCHINSKY .....	135
10	Peptide Imaging	
	IRENE VIRGOLINI and T. TRAUB-WEIDINGER .....	153
11	FDG-PET Imaging in Oncology	
	CHRISTIAAN SCHIEPERS and CARL K. HOH.....	184
12	PET/CT in Lung and Head and Neck Cancer	
	HANS C. STEINERT, GERHARD GOERRES, and GUSTAV K. VON SCHULTHESS .....	205
13	PET/CT Imaging in Breast Cancer, Gastrointestinal Cancers, Gynecological Cancers and Lymphoma	
	MARTIN ALLEN-AUERBACH, JOHANNES CZERNIN, and CHRISTIAAN SCHIEPERS ...	215
14	Pediatric Nuclear Medicine - A Coming of Age	
	HELEN R. NADEL and MOIRA E. STILWELL .....	227

<b>Basics of Scintigraphic Imaging</b> .....	245
15 Radiopharmaceuticals: Recent Developments and Trends GUY BORMANS, KRISTIN VERBEKE, and ALFONS VERBRUGGEN .....	247
16 Instrumentation and Data Acquisition SIBYLLE I. ZIEGLER and MAGNUS DAHLBOM .....	275
17 Image Formation JOHAN NUYTS and DIRK BEQUÉ .....	291
<b>Future Outlook</b> .....	311
18 Imaging of Gene Expression: Concepts and Future Outlook MEIKE L. SCHIPPER and SANJIV S. GAMBHIR .....	313
19 Quo Vadis? CHRISTIAAN SCHIEPERS .....	343
Glossary .....	345
Subject Index .....	349
List of Contributors .....	353

Diagnostic Nuclear Medicine

Schiepers, C. (Ed.)

2006, X, 356 p. 235 illus., 11 illus. in color., Hardcover

ISBN: 978-3-540-42309-6