Contents

Acknowledgments — VII

List	t of Ab	breviatio	ons — XV			
1	General Introduction —— 1					
	1.1	1 Geographical and Temporal Scope —— 4				
		1.1.1	Why Post	t-Hellenistic Sources —— 6		
	1.2	Why <i>Dr</i>	eckapothek	e 7		
		1.2.1	Methods			
			1.2.1.1	Loan-Words? —— 10		
			1.2.1.2	Identifiable Names of <i>Materia Medica</i> —— 10		
			1.2.1.3	Context and Combination of Ingredients —— 12		
			1.2.1.4	Medical Ingredients Considered —— 12		
	1.3 General Definition of Terms — 14			of Terms —— 14		
		1.3.1	Medicine	e vs. Magic —— 14		
		1.3.2	Dreckapo	theke and Similarly Perplexing Ingredients —— 16		
		1.3.3	Difficultie	es Inherent in their Interpretation —— 17		
	1.4 History of the Scholarship —— 20			olarship —— 20		
		1.4.1	General (Comparative Interests —— 20		
		1.4.2	On Medi	cine —— 20		
		1.4.3	Specifica	lly on <i>Dreckapotheke</i> —— 23		
2	The S	ources -	<u> </u>			
	2.1	Mesop	otamian So	urces on Drugs and Pharmacology —— 25		
	2.1.1 Archaeological Evidence —— 25			ogical Evidence —— 25		
2.1.2 Textual Sources —— 26						
			2.1.2.1	Ebla —— 29		
			2.1.2.2	Uruanna —— 30		
				A Pharmaceutical Inventory —— 30		
			2.1.2.4	Vademecum of the Physician —— 31		
			2.1.2.5	Y.,, v		
	2.2	Princip	al Greek an	d Roman Sources on Drugs and Pharmacology —— 33		
3	Histo	rical and	l Intellectu	ıal Contexts —— 41		
	3.1	Cross-C	Cultural Mat	ultural Material Transfers and Occasions for Contact —— 42		
		3.1.1	Late Bro	nze Age —— 43		
		3.1.2	Early I M	illennium BCE —— 44		
		3.1.3	Achaeme	enid Period —— 46		
		3.1.4	Hellenisn	n and Alexandria —— 47		
		315	Rome an	d the Early Empire —— 49		

	3.2	Cross-Cultural Intellectual Transfers —— 50				
		3.2.1	Transfers	of Literary and Artistic Motifs —— 50		
		3.2.2	Transfers	of Ideas Associated with Science and		
			Technolo	gy — 51		
		3.2.3	Transfers	of Ideas Associated with Medicine —— 53		
			3.2.3.1	Medical Deities —— 53		
			3.2.3.2	The Iconography of Asclepius: The Serpent —— 55		
			3.2.3.3	The Iconography of Asclepius: The Dog —— 56		
		3.2.4	Circulatio	on of Scholarly Knowledge —— 59		
			3.2.4.1	Early Days of Greek Philosophy —— 60		
		3.2.5	The Prob	lem of Communicating with Foreign Speakers —— 66		
		3.2.6	Understa	nding Assyrian Characters Outside of		
			Mesopot	amia —— 67		
	3.3	The Rol	ole of the Magi —— 72			
	3.4	The Wit	hering of a	Mesopotamian Tradition —— 75		
4	Mater	ria Medio	:a —— 76			
	4.1	The Pra	e Practice of Medicinal Plants —— 76			
		4.1.1 Acquiring Practical Knowledge About <i>Materia medica</i> — 77				
		4.1.2	The Ingredients and their Materials —— 79			
			4.1.2.1	Types of Medical Ingredients: Plants, Minerals,		
				Animal, and More —— 79		
		4.1.3	The Ingre	edients and their Application —— 82		
			4.1.3.1	Simple vs. Compound Medicaments —— 83		
			4.1.3.2	Specialization of Therapy and Ingredients —— 86		
			4.1.3.3	Materia magica Vs. Materia medica in the Medical		
				Corpus —— 87		
			4.1.3.4	Drug Therapy on the Battlefield? —— 89		
			4.1.3.5	Ingredients in the Kitchen: Medicine and/or		
				Diet —— 90		
		4.1.4		nedica and its Provenience —— 92		
			4.1.4.1	Mesopotamia —— 92		
			4.1.4.2	Gardens and Cultivation of Physics —— 94		
			4.1.4.3	Drug Trade and Movement, East and West —— 95		
		4.1.5		nedica in Greek and Roman Medicine —— 97		
			4.1.5.1	Simple and Compound Medicaments in Classical		
				Medicine —— 98		
	4.2	The Naming of Medicinal Plants —— 99				
			4.2.1 How do Plant Names Arise? —— 100			
		4.2.2		ng Names of Drugs —— 101		
	4.3			ledicinal Plants —— 102		
		4.3.1	Lists, Cla	ssification, Organization —— 103		

		4.3.2	Precursors to Botany —— 105				
			4.3.2.1 Theophrastus and <i>Šammu šikinšu</i> —— 106				
5	Dreck	apotheke	e, Filthy and Perplexing Ingredients —— 112				
	5.1	Animal/	'Human-Based Ingredients —— 112				
	5.2	Dreckap	potheke and Disgust —— 113				
	5.3	Perplex	ing Ingredients in Mesopotamian Medical Records —— 118				
		5.3.1	Ebla and III Millennium BCE —— 118				
		5.3.2	Old-Babylonian Period —— 119				
		5.3.3	End of II Millennium and I Millennium BCE —— 120				
			5.3.3.1 List of Animal-Based Ingredient Names —— 121				
		5.3.4	Coded Names in Late Babylonian Astromedicine —— 128				
	5.4	Perplex	ing Ingredients in Greece and Rome —— 128				
	5.5	·					
		5.5.1	How They Were Explained and Perceived in Mesopotamia —— 138				
			5.5.1.1 Uruanna III —— 138				
			5.5.1.2 Medical Commentaries —— 140				
			5.5.1.3 The Aluzinnu —— 142				
		5.5.2	How They Were Explained and Perceived in the Graeco-				
			Roman World —— 143				
		5.5.3	Explanations in a Greek Magical Papyrus —— 146				
	5.6	Moderr	n Interpretations of Babylonian Perplexing Ingredients —— 148				
		5.6.1	Reginald Campbell Thompson's Interpretation —— 148				
		5.6.2	Franz Köcher's Theory —— 149				
		5.6.3	Other Interpretations —— 150				
6	Acade	emic, Po _l	oular, Folk Medicine and its Professionals —— 152				
	6.1	A Note on Definitions —— 153					
	6.2	fessionals of Healing —— 154					
		6.2.1	The Academic Herbal Expert in Mesopotamia —— 154				
		6.2.2	The Popular/Folk Herbal Expert in Mesopotamia —— 157				
		6.2.3	The Herbal Expert (and Frauds) in the Greek and Roman				
			World —— 159				
7	Case	Studies:	Transfers of Knowledge Emerging from the Study of				
		•	2 —— 161				
	7.1		zinnu —— 162				
		7.1.1	The Text —— 163				
		7.1.2	Audience —— 164				
		7.1.3	Perceived Ambiguity of Ingredient Names —— 165				
		7.1.4	Risible <i>Dreckapotheke</i> — 166				

	7.1.5	The <i>Aluzinnu</i> and its Equivalent in the Greco-Roman World —— 167				
	7.1.6	Quacks and Excremental Therapy —— 171				
7.2	Astral Medicine from Uruk to Rome —— 172					
7.2	7.2.1	Astral Medicine in Antiquity —— 173				
	7.2.2	Kalendertexte in Babylonia —— 174				
	7.2.3	SpTU 3, 104 —— 177				
	7.2.4	Pliny's "Commentary" to <i>SpTU</i> 3, 104's Instructions —— 180				
	7.2.5	Implications of the Parallel —— 188				
		7.2.5.1 <i>Materia Medica</i> —— 188				
		7.2.5.2 Purpose of <i>Kalendertexte</i> 's Treatment —— 189				
		7.2.5.3 Fevers — 189				
		7.2.5.4 Order and Regularity in <i>SpTU</i> 3, 104 —— 191				
	7.2.6	Prognostic Reasons? —— 192				
	7.2.7	Role of Number Seven in the Mesopotamian and Graeco-				
		Roman Healing Context —— 196				
	7.2.8	Babylonian Kalendertexte and the Doctrine of Critical Days —— 198				
7.3	Medico	-Pharmaceutical Literature —— 204				
	7.3.1	Human Ingredients: Blood as Treatment for Epilepsy —— 204				
7.4	Excremental Therapy —— 209					
	7.4.1	Dog Dung —— 210				
	7.4.2	Dove Dung —— 213				
	7.4.3	3				
7.5		Perplexing Ingredients —— 223				
	7.5.1	Snake Skin —— 223				
	7.5.2					
7.6		Explanations of <i>Dreckapotheke</i> Ingredients —— 229				
	7.6.1	Two Remedies for an Injured Eye or Impaired Vision —— 230				
7.7	Final Reflections —— 235					
Epilog	gue — :	237				
8.1	Results	 240				
8.2	Broade	r Implications 242				
	8.2.1	Written Transmission Vs. Oral Exchanges? —— 242				
	8.2.2	Medico-Magical Justification —— 244				
	8.2.3	Altered Perception of Ancient Pharmacology —— 244				
8.3	What N	ext —— 245				
Appe	ndix —	247				
9.1	Uru.an.	na III 1–143 (138) —— 247				
	9.1.1	Publication History —— 247				
	9.1.2	Dating —— 248				

	9.1.3	Preservation State of Uruanna III — 248			
	9.1.4	Description of the Manuscripts — 249			
9.2		ximate Portins of Text Preserved in Each Manuscript —— 255			
9.3		the Purpose Underlining the Series —— 255			
9.4	The Organization of the Material —— 257				
	9.4.1	General Organizational Principles in Uruanna III — 257			
	9.4.2	Organizational Principles in Uruanna III, Lines 1–143 —— 258			
		9.4.2.1 The Left Sub-Column —— 258			
		9.4.2.2 The Right Sub-Column —— 260			
9.5		tent: A Problematic Matter —— 261			
	9.5.1	Problem 1: Absence of Determinatives —— 262			
	9.5.2	Problem 2: Association of Different Categories of			
		Substances —— 262			
	9.5.3	Problem 3: <i>Deck-</i> or <i>Dreck-</i> Names? —— 263			
9.6	Transliteration —— 273				
9.7	Variations —— 289				
9.8		ion —— 292			
9.9	Photographs —— 299				
	9.9.1	Photograph 1: Manuscript A —— 299			
	9.9.2	Photograph 2: Manuscript B —— 300			
	9.9.3	Photograph 3: Manuscript C —— 301			
	9.9.4	Photograph 4 (a and b): Manuscript D = Da (+) Db —— 302			
	9.9.5	Photograph 5 (a and b): Manuscript E = Ea (+) Eb —— 303			
	9.9.6	Photograph 6: Manuscript F —— 304			
	9.9.7	Photograph 7 (a and b): Manuscript G = Ga (+) Gb —— 305			
	9.9.8	Photograph 8: Manuscript H (rev.) —— 306			
	9.9.9	Photograph 9 (a and b): Manuscript I —— 307			
	9.9.10	Photograph 10: Manuscript J —— 309			
	9.9.11	Photograph 11: Manuscript K —— 310			
	9.9.12	Photograph 12 (a and b): Manuscript L = La (+) Lb —— 311			
	9.9.13	Photograph 13: Manuscript M (S) —— 312			
	9.9.14	Photograph 14: Manuscript N —— 313			
	9.9.15	Photograph 15: Manuscript O —— 314			
	9.9.16	Photograph 16: Manuscript P —— 315			
rks Cit	ed 31	17			

Wor

Index —— 341

Index of Names and Subjects —— 341 Index of Words — 345 Index of Cited and Edited Texts —— 348

Index of Cited Ingredients —— 352