

## CONTENTS

SECTION 1. Anatomy and Cytology of the Laticiferous System of <i>Hevea brasiliensis</i>	
Chapter 1.1 anatomical Organization of the Laticiferous System in the Bark	3
Chapter 1.11 Cytology and Cytochemistry of the Laticiferous System	15
Chapter 1.111 Relation Between Anatomical Organization of the Latex Yield: Search for Early Selection Criteria	31
Section 1 Reference	51
SECTION 2. The Composition of Latex from <i>Hevea brasiliensis</i> as a Laticiferous Cytoplasm	
Chapter 2.1 The Composition of Latex from <i>Hevea brasiliensis</i> as a Laticiferous Cytoplasm	59
Section 2 References	89
SECTION 3. The Metabolism of the Laticiferous Cells of <i>Hevea brasiliensis</i>	
Chapter 3 Introduction to Section 3	99
Chapter 3.1 General Metabolism of <i>Hevea brasiliensis</i> Latex (With the Exception of Isoprenoid Anabolism)	101
Chapter 3.II The Formation of Polyisoprenoids in <i>Hevea</i> Latex	145
Chapter 3.IV Sucrose Supply and Utilization for Latex Production	179
Section 3 References	201
SECTION 4. Physiology of Latex Flow	
Chapter 4.1 Tapping Systems and Area of the Drained Bark	221
Chapter 4.II Water Relations and Latex Flow	233
Chapter 4.III Factors Involved in the Stopping of Flow After Tapping	257
SECTION 5. The Hormonal Stimulation of Latex Yield	
Chapter 5.1 Historical Account	289
Chapter 5.II Physico-Chapical and Biochemical Mechanisms of Hormonal (Ethylene) Stimulation	295
Chapter 5.III Factors Influencing Response to Hormonal Yield Stimulation: Limits of this Stimulation	321
Section 5 References	331
SECTION 6. The Limiting Factors for Latex Yield of <i>Hevea</i>	
Chapter 6.1 Yield Limiting Factors, Latex Physiological Parameters, Latex Diagnosis, and Clonal Typology	345
Chapter 6.II Possibility of the Use of the Physiological Parameters of Latex in Early Selection	383
Section 6 References	397
SECTION 7. The Bark Dryness Disease (Brown-Bast) of <i>Hevea</i>	
Chapter 7.1 Symptomatology, Histological, and Cytological Aspects	407
Chapter 7.II Biochemical Aspects of Bark Dryness Induced by Over-Stimulation of Rubber Trees With Ethrel	431
Chapter 7.III Conditions which Favor the Onset of Brown-Bast	443

Section 7 References

455

Index

461