CONTENTS

1.	POSITION PAPER ON RDA FOR PROTEIN FOR CHILDREN	1
2.	CHILEAN EXPERIENCE WITH FORTIFIED CHILDREN'S FORMULAS	11
3.	IMPROVEMENT OF THE PROTEIN QUALITY OF CORN WITH SOYBEAN PROTEIN	29
4.	ANIMAL AND HUMAN FEEDING STUDIES ON THE BIOLOGICAL AVAILABILITY	
	OF PROTEIN IN SUPPLEMENTS	67
5.	EFFECT OF NITROGEN RETENTION BY ADULTS OF DIFFERENT PROPORTIONS	
	OF INDISPENSABLE AMINO ACIDS IN ISONITRO-GENOUS CEREAL-BASED	
	DIETS	79
6.	COMPARATIVE PROTEIN QUALITY AS MEASURED BY HUMAN AND SMALL	
	ANIMAL BIOASSAYS OF THREE LINES OF WINTER WHEAT	91
7.	UREA AS A DIETARY SUPPLEMENT FOR HUMANS	103
8.	NUTRITIONAL CONSEQUENCES OF EXCESS AMINO ACID INTAKE	119
9.	HAIR AS AN INDEX OF PROTEIN MALNUTRITION	131
10.	THE PROBLEM OF CURVATURE IN SLOPE ASSAYS FOR PROTEIN QUALITY	155
11.	DEFINING DIETARY PLANT FIBERS IN HUMAN NUTRITION	165
12.	PHOTOSYNTHESIS AND INCREASED PRODUCTION OF PROTEIN	195
13.	CONTROL THROUGH BREEDING METHODS OF FACTORS AFFECTING	
	NUTRITIONAL QUALITY OF CEREALS AND GRAIN LEGUMES	249
14.	METHODS FOR IMPROVING CEREAL PROTEIN QUALITY	275
15.	THE CURRENT STATUS OF BREEDING FOR PROTEIN QUALITY IN CORN	281
16.	IMPROVEMENT OF WHEAT PROTEIN QUALITY AND QUANTITY BY BREEDING	301
17.	PROTEIN QUALITY OF INDUCED HIGH LYSINE MUTANTS IN BARLEY	317
18.	POTENTIAL FOR IMPROVING COTTONSEED QUALITY BY GENETIC AND	
	AGRONOMIC PRACTICES	343
19.	THE NUTRITIVE VALUE OF MIXED PROTEINS	365
20.	SOME THOUGHTS ON AMINO ACID SUPPLEMENTATION OF PROTEINS IN	
	RELATION TO IMPROVEMENT OF PROTEIN NUTRITURE	379
21.	NUTRITIONAL EVALUATION OF DRY-ROASTED NAVY BEAN FLOUR AND	
	MIXTURES WITH CEREAL PROTEINS	401
22.	NUTRITIONAL EVALUATION OF OILSEEDS AND LEGUMES AS PROTEIN	
	SUPPLEMENTS TO CEREALS	415
23.	AMINO ACID SUPPLEMENTATION OF ISOLATED SOYBEAN PROTEIN IN MILK	
	REPLACERS FOR PRERUMINANT LAMBS	443
24.	THE NUTRITIVE VALUE OF FABA BEANS AND LOW GLUCOSI-NOLATE RAPESEE	ED
	MEAL FOR SWINE	453

PRODUCTION OF ANIMAL PROTEIN FROM NONPROTEIN NITROGEN	
CHEMICALS	473
ANALYSIS FOR AVAILABILITY OF AMINO ACID SUPPLEMENTS IN FOODS AND)
FEEDS: BIOCHEMICAL AND NUTRITIONAL IMPLICATIONS	497
N-SUBSTITUTED LYSINES AS SOURCES OF LYSINE IN NUTRITION	549
BIOAVAILABILITY OF ACETYLATED DERIVATIVES OF METHIONINE,	
THREONINE, AND LYSINE	571
A METHOD FOR IMPROVING THE NUTRITIONAL VALUE OF FOOD PROTEINS:	
COVALENT ATTACHMENT OF AMINO ACIDS	587
INHIBITION OF LYSINOALANINE SYNTHESIS BY PROTEIN ACYLATION	613
MICROBIAL PRODUCTION OF ESSENTIAL AMINO ACIDS WITH	
CORYNEBACTERIUM GLUTAMICUM MUTANTS	649
NUTRITIONAL IMPROVEMENT OF FOOD PROTEINS BY MEANS OF THE	
PLASTEIN REACTION AND ITS NOVEL MODIFICATION	663
POTENTIAL FOR THE USE OF GERMINATED WHEAT AND SOYBEANS TO	
ENHANCE HUMAN NUTRITION	681
IMPROVING PROTEIN QUALITY OF BREAD—NUTRITIONAL BENEFITS AND	
REALITIES	703
FORTIFICATION OF SOFT DRINKS WITH PROTEIN FROM COTTAGE CHEESE	
WHEY	735
SOY PROTEIN UTILIZATION IN FOOD SYSTEMS	749
COTTONSEED PROTEIN DERIVATIVES AS NUTRITIONAL AND FUNCTIONAL	
SUPPLEMENTS IN FOOD FORMULATIONS	767
YEAST PROTEINS: RECOVERY, NUTRITIONAL AND FUNCTIONAL	
PROPERTIES	797
DESIGN AND ASSEMBLY OF AN INEXPENSIVE, AUTOMATED MICROPROBE	
AMINO ACID ANALYZER: SEPARATION AND QUANTITATION OF AMINO ACIDS	S
IN PHYSIOLOGICAL FLUID	827
GLOSSARY OF ABBREVIATIONS AND DEFINITIONS OF NUTRITIONAL TERMS	841
BJECT INDEX	865
	CHEMICALS ANALYSIS FOR AVAILABILITY OF AMINO ACID SUPPLEMENTS IN FOODS AND FEEDS: BIOCHEMICAL AND NUTRITIONAL IMPLICATIONS N-SUBSTITUTED LYSINES AS SOURCES OF LYSINE IN NUTRITION BIOAVAILABILITY OF ACETYLATED DERIVATIVES OF METHIONINE, THREONINE, AND LYSINE A METHOD FOR IMPROVING THE NUTRITIONAL VALUE OF FOOD PROTEINS: COVALENT ATTACHMENT OF AMINO ACIDS INHIBITION OF LYSINOALANINE SYNTHESIS BY PROTEIN ACYLATION MICROBIAL PRODUCTION OF ESSENTIAL AMINO ACIDS WITH CORYNEBACTERIUM GLUTAMICUM MUTANTS NUTRITIONAL IMPROVEMENT OF FOOD PROTEINS BY MEANS OF THE PLASTEIN REACTION AND ITS NOVEL MODIFICATION POTENTIAL FOR THE USE OF GERMINATED WHEAT AND SOYBEANS TO ENHANCE HUMAN NUTRITION IMPROVING PROTEIN QUALITY OF BREAD—NUTRITIONAL BENEFITS AND REALITIES FORTIFICATION OF SOFT DRINKS WITH PROTEIN FROM COTTAGE CHEESE WHEY SOY PROTEIN UTILIZATION IN FOOD SYSTEMS COTTONSEED PROTEIN DERIVATIVES AS NUTRITIONAL AND FUNCTIONAL SUPPLEMENTS IN FOOD FORMULATIONS YEAST PROTEINS: RECOVERY, NUTRITIONAL AND FUNCTIONAL PROPERTIES DESIGN AND ASSEMBLY OF AN INEXPENSIVE, AUTOMATED MICROPROBE AMINO ACID ANALYZER: SEPARATION AND QUANTITATION OF AMINO ACIDS