

**CONTENTS OF VOLUME 28**

*Number 1*

Effect of Ripening Temperatures on Proteolysis and Lipolysis in the Outer and Inner Regions of Ras-Type Cheese Made by Various Salting Methods . . . . .	1
W. M. ABO EL-ELLA, A. A. ABDEL BAKY, M. E. ALY (Egypt) & P. F. FOX (Republic of Ireland)	
Emulsifying and Foaming Properties of Acidic Caseins and Sodium Caseinate . . . . .	17
B. MOHANTY, D. M. MULVIHILL & P. F. FOX (Republic of Ireland)	
Chemical Characterization of Peach Kernel Oil and Protein: Functional Properties, <i>in vitro</i> Digestibility and Amino Acids Profile of the Flour . . . . .	31
E. H. RAHMA & M. H. ABD EL-AAL (Egypt)	
Influence of Nitrogen Fertilization on Chemical Composition of Potato Tubers. . . . .	45
W. LESZCZYŃSKI & G. LISIŃSKA (Poland)	
The Potential of Fourier Transform Infrared Spectroscopy for the Analysis of Confectionery Products . . . . .	53
PETER S. BELTON, ALFRED M. SAFFA, REGINALD H. WILSON & ARTHUR D. INCE (UK)	
Enzyme Accelerated Ripening of Spanish Hard Cheese . . . . .	63
E. FERNÁNDEZ-GARCÍA, M. RAMOS, C. POLO, M. JUÁREZ & A. OLANO (Spain)	
Book Reviews . . . . .	81

*Number 2*

Composition and Microstructure of Domiati Cheese Made from Reconstituted UF Milk . . . . .	85
MOHAMED M. OMAR (Egypt)	
Resistant Starch: Its Chemical Form in Foodstuffs and Effect on Digestibility <i>in vitro</i> . . . . .	97
STEPHEN G. RING, JENNIFER M. GEE, MARY WHITTAM, PAUL ORFORD & IAN T. JOHNSON (UK)	
<i>Andasonia digitata Bombax</i> and <i>Parkia filicoideae Welw</i> : Fruit Pulp for the Soft Drink Industry . . . . .	111
S. A. IBIYEMI, A. ABIODUN & S. A. AKANJI (Nigeria)	
Protein in Various Legume Seeds: Electrophoretic Comparison after Optimized Extraction . . . . .	117
M. A. HAMZA (Egypt), H. STEGEMANN (FRG) & A. EL-TABEY SHEHATA (Egypt)	

Production of Phenyl Ethyl Alcohol and its Esters During Ripening of Traditional Camembert . . . . .	129
SYLVIANE ROGER, CHRISTIANE DEGAS & J. C. GRIPON (France)	
Flavour Compounds of a Commercial Concentrated Blackberry Juice . . . . .	141
DIMITRIS N. GEORGILOPOULOS & ANNIE N. GALLOIS (France)	
Extractability and Evaluation of $\alpha$ -Galactosides of Sucrose in Leguminous Seeds . . . . .	149
H. S. SAINI (Australia)	
Enzyme Activity in Spanish Goat's Cheeses. . . . .	159
R. GÓMEZ, C. PELÁEZ & C. MARTÍN-HERNÁNDEZ (Spain)	

*Number 3*

Effect of Some Herbicides as Plant Growth Regulators on the Chemical Composition of <i>Zea maize</i> Grains . . . . .	167
RAGA'A O. OSMAN, F. A. AHMED, F. A. KHALIL & M. S. ALI (Egypt)	
The Composition of the Pindó ( <i>Arecastrum romanozoffianum</i> ) Fruit . . . . .	177
R. A. ODERINDE & F. O. J. OBOH (Nigeria)	
Some Further Observations on the TBA Test as an Index of Lipid Oxidation in Meats . . . . .	187
RHONDA L. CRACKEL, J. I. GRAY, A. M. PEARSON, A. M. BOOREN & D. J. BUCKLEY (USA)	
Determination of the Phospholipid Composition of Bovine Muscle by High Performance Liquid Chromatography with Emphasis on the Choline and Ethanolamine Plasmalogens. . . . .	197
YOUNG K. YEO & LLOYD A. HORROCKS (USA)	
Thiols in Flour and Breadmaking Quality . . . . .	207
J. A. D. EWART (UK)	
Production of Soft Cheese with Low Fat and Salt Contents . . . . .	219
A. A. EL-NESHAWY, S. M. FARAHAT & H. A. WHABAH (Egypt)	
Effect of Extrusion Process Variables on In-Vitro Protein Digestibility of Fish-Wheat Flour Blends . . . . .	225
SUVENTU BHATTACHARYA, H. DAS & A. N. BOSE (India)	
<b>Technical Note</b>	
Evaluation of the Properties of Yellow Nutsedge ( <i>Cyperus esculentus</i> ) Tuber Oil . . . . .	233
R. A. ODERINDE & O. A. TAIRU (Nigeria)	

**Research Note**

- On the Interaction between Tannins and Aflatoxin B<sub>1</sub> in Sorghum . . . . . 239  
OLABISI O. OMOLAYO, BRONISLAW L. WEDZICHA &  
HANS G. MULLER (UK)

- Book Reviews . . . . . 243

*Number 4*

- Production of Processed Cheese Food Enriched with Vegetable and Whey Proteins 245  
A. A. EL-NESHAWY, S. M. FARAHAT & H. A. WAHBAH (Egypt)

- Quantitative Analysis of Vitamin C (L-Ascorbic Acid) by Ion Suppression Reversed Phase Chromatography . . . . . 257  
LINDA L. LLOYD, FRANK P. WARNER, JOHN F. KENNEDY &  
CHARLES A. WHITE (UK)

- New Methods for the Determination of Aspartame . . . . . 269  
U. VIPLAVA PRASAD, T. E. DIVAKAR, C. S. P. SASTRY,  
M. VEERABHADRA RAO & O. P. KAPUR (India)

- Comparison of Chufa and Olive Oils . . . . . 279  
JOZEF P. H. LINSSEN, GABE M. KIELMAN, JAN L. COIZJNSEN &  
WALTER PILNIK (The Netherlands)

- Amino Acid Determination in Conophor Nut by Gas-Liquid Chromatography. 287  
A. O. OGUNSUA (Nigeria)

- Study of the Biosynthesis of 3-Isopropyl-2-methoxypyrazine Produced by *Pseudomonas taetrolens* . . . . . 299  
ANNIE GALLOIS, ANDRÉ KERGOMARD &  
JACQUES ADDA (France)

**Research Note**

- Influence of Salts on Pasting Characteristics of Cassava (*Manihot esculenta Crantz*) 311  
K. C. M. RAJA & S. V. RAMAKRISHNA (India)

- Letter to the Editors . . . . . 319

- Book Reviews . . . . . 321

**CONTENTS OF VOLUME 29**

*Number 1*

- Analysis of Phospholipid Classes in Various Beef Tissues by High Performance Liquid Chromatography . . . . . 1  
YOUNG K. YEO & LLOYD A. HORROCKS (USA)

The Condensation of 5-(Hydroxymethyl)-2-furfuraldehyde with Some Aldoses on Heating . . . . .	7
TADASU URASHIMA, KYOZO SUYAMA & SUSUMU ADACHI (Japan)	
Chemical Composition and <i>In Vitro</i> Protein Digestibility of Italian Millett ( <i>Setaria italica</i> ) . . . . .	19
P. VINCENT MONTEIRO (India), D. HARA GOPAL (USA), T. K. VIRUPAKSHA & GEETA RAMACHANDRA (India)	
Chemical and Technological Studies on Faba Bean Seeds. Effect of Storage on Some Physical and Chemical Properties . . . . .	27
AHMED A. EL-REFAI, HUSSIEN M. HARRAS, KAMAL M. EL-NEMR & MOHAMMED A. NOAMAN (Egypt)	
Degradation Products of Sorbic Acid in Aqueous Solutions . . . . .	41
S. S. ARYA & B. R. THAKUR (India)	
Influence of Acid and Temperature on the Rate of Inversion of Sucrose . . . . .	51
W. J. WIENEN & R. S. SHALLEMBERGER (USA)	
Aqueous Protein and Gossypol Extraction from Glanded Cottonseed Flour: Factors Affecting Protein Extraction . . . . .	57
A. H. EL TINAY, A. M. NOUR, S. H. ABDEL-KARIM & S. O. MAHGOUB (Sudan)	
Effect of Variety on Protein Content, Amino Acid Composition and Trypsin Inhibitor Activity of Cowpeas . . . . .	65
NEENA KOCHHAR, ANN F. WALKER & DEREK J. PIKE (UK)	
Book Reviews . . . . .	79
 <i>Number 2</i>	
Studies on Commercially Canned Juices Produced Locally in Saudi Arabia: Part 2—Physicochemical, Organoleptic and Microbiological Assessment . . . . .	81
E. H. EWAIDAH (Saudi Arabia)	
Protein Concentrates from Italian Millet ( <i>Setaria italica</i> ) and their Enzymatic Hydrolysis . . . . .	97
D. HARA GOPAL (USA), P. VINCENT MONTEIRO, T. K. VIRUPAKSHA & GEETA RAMACHANDRA (India)	
Some Functional Properties of Acetylated and Succinylated Oat Protein Concentrates and a Blend of Succinylated Oat Protein and Whey Protein Concentrates . . . . .	109
RATHY PONNAMPALAM, GILLES GOULET, JEAN AMIOT, BRUNO CHAMBERLAND & GERMAIN J. BRISSON (Canada)	

Factors Inducing Mushiness in Stored Prawns . . . . .	119
PINHAS LINDNER, SAMUEL ANGEL, ZVI G. WEINBERG & RINA GRANIT (Israel)	
Chemical Indicators for Determining the Presterilization Quality of Canned Curried Meat: Factors Affecting the Quantity of the Chemical Indices . . . . .	133
T. S. VASUNDHARA, K. V. KUMUDAVALLY, JOYCE D'SOUZA, H. S. PHANINDRA KUMAR & T. R. SHARMA (India)	
The Chemistry and Stability of the Haem-Protein Complex in Relation to Meat . . . . .	143
D. LADIKOS & B. L. WEDZICHA (UK)	
Book Reviews . . . . .	157
Announcement . . . . .	160

*Number 3*

On the Mechanism of the Stable Red Colour Expression of Cellulose-Bound Carthamin . . . . .	161
KOSHI SAITO & AKIYOSHI FUKUSHIMA (Japan)	
Gas Chromatographic Analysis of Free Carboxylic Acids in Foods Using a Micropacked Column . . . . .	177
T. HERRAIZ, G. REGLERO & M. HERRAIZ (Spain)	
The Role of Noncovalent Forces in Micelle Formation by Vicilin from <i>Vicia faba</i> . III. The Effect of Urea, Guanidine Hydrochloride and Sucrose on Protein Interactions . . . . .	189
M. A. H. ISMOND, E. D. MURRAY & S. D. ARNTFIELD (Canada)	
Chemical and Technological Studies on Faba Seeds: Effect of the Stewing Process on Physical, Organoleptic and Chemical Properties . . . . .	199
MOHAMMED A. NOAMAN, KAMAL M. EL-NEMR, HUSSIEN M. HARRAS & AHMED A. EL-REFAI (Egypt)	
Biochemical Studies of Cocoa Bean <i>o</i> -Diphenol O <sub>2</sub> Oxidoreductase (Catechol Oxidase) . . . . .	209
STUART G. REEVES, IAN McDOWELL, KEVIN BEHN & JANE DENCH (UK)	
The Effect of Environmental Conditions on the Chemical Composition of Soybean Seeds: Relationship Between the Protein, Oil, Carbohydrate and Trypsin Inhibitor Content . . . . .	221
A. B. SAKLA, Y. GHALI, A. EL-FARRA & LAILA F. RIZK (Egypt)	

**Technical Note**

- Discriminant Analysis of Black Tea by Near Infrared Reflectance Spectroscopy. 233  
B. G. OSBORNE & T. FEARN (UK)

- Book Review . . . . . 239

*Number 4*

- Ripening Changes and Quality of Recombined Milk Blue Cheese as Affected by Mould Strain and Salting Method . . . . . 241

A. M. RABIE, S. M. FARAHAT & A. A. FARAG (Egypt)

- Influence of Low Voltage Electrical Stimulation and Rate of Chilling on Post-Mortem Glucolysis in Lamb . . . . . 257

J. CARBALLO, E. GARCÍA-MATAMOROS &  
F. JIMÉNEZ-COLMENERO (Spain)

- The Effect of Environmental Conditions on the Chemical Composition of Soybean Seeds: Deactivation of Trypsin Inhibitor and Effect of Microwave on some Components of Soybean Seeds . . . . . 269

A. B. SAKLA, Y. GHALI, A. EL-FARRA & LAILA F. RIZK (Egypt)

- A Simple Method of Identifying Peroxidase Isoenzymes from Crude Pea Seed Extracts . . . . . 275

HELEN C. LEE & BARBARA P. KLEIN (USA)

- Effects of Light, Air, Anti-oxidants and Pro-oxidants on Annatto Extracts (*Bixa orellana*) . . . . . 283

S. V. NAJAR, F. O. BOBBIO & P. A. BOBBIO (Brazil)

- The Chlorogenic Acids Content of Green Robusta Coffee Beans as a Possible Index of Geographic Origin . . . . . 291

M. N. CLIFFORD & T. JARVIS (UK)

- The Fate in the Rat of Ingested Dhurrin Present in Sprouted Sorghum Grain . . . . . 299

P. N. OKOH, C. O. IKEDIOBI & O. OLUGBOJI (Nigeria)

- Nutritional Quality of Blended Foods of Rice, Soy and Lupins, Processed by Extrusion . . . . . 309

JENNY RUALES (Ecuador/Sweden), PABLO PÓLIT (Ecuador) &  
BABOO M. NAIR (Sweden)

**CONTENTS OF VOLUME 30**

*Number 1*

- Quality Changes and Mineral Content of Cowpea (*Vigna unguiculata* L. Walp) Seeds Processed with 'Kanwa' Alkaline Salt . . . . . 1

S. G. UZOGARA, I. D. MORTON & J. W. DANIEL (UK)

Aqueous Protein and Gossypol Extraction from Glanded Cottonseed Flour: Factors Affecting Protein Coagulation and Gossypol Content . . . . .	19
A. H. EL TINAY, A. M. NOUR, S. H. ABDEL-KARIM & S. O. MAHGOUB (Sudan)	
Production of <i>Zabadi</i> , from Ultrafiltered Buffalo's Milk . . . . .	29
H. F. HAGGAG & A. E. FAYED (Egypt)	
Tannin, Phytin and Oxalate Contents of Some Wild Under-utilized Crop-seeds in Nigeria . . . . .	37
ADEBISI M. BALOGUN & BABATUNDE L. FETUGA (Nigeria)	
Effect of Fruit Maturity on the Quality and Acceptability of Guava Purée . . . . .	45
SALMAH YUSOF, SUHAILA MOHAMED & ABDULLAH ABU BAKAR (Malaysia)	
Improved Equation for Cryoscopic Estimation of Water Activity in Cheese . . . . .	59
L. CABEZAS, A. MARCOS, M. A. ESTEBAN, J. FERNÁNDEZ-SALGUERO & M. ALCALÁ (Spain)	
The Dissociation Constant of Hydrogen Sulphite Ion at High Ionic Strength . . . . .	67
B. L. WEDZICHA & S. J. GODDARD (UK)	
<b>Technical Note</b>	
Mineral Contents of Agricultural Products . . . . .	73
O. OLAOFE & C. O. SANMI (Nigeria)	
Book Reviews . . . . .	79

*Number 2*

The Nutritive Value of African Oil Bean Seeds ( <i>Pentaclethra macrophylla</i> ) . . . . .	83
M. O. ISICHEI & S. C. ACHINEWHU (Nigeria)	
Some Nutritional and Anti-nutritional Characteristics of Para-rubber ( <i>Hevea brasiliensis</i> ) Seeds . . . . .	93
V. RAVINDRAN & G. RAVINDRAN (Sri Lanka)	
Extraction, Determination and Fractionation of Sorghum Polyphenols . . . . .	103
AYYAT M. M. YOUSSEF, H. BOLLING, E. K. MOUSTAFA & Y. G. MOHARRAM (FRG)	
Contents and Digestibility of Carbohydrates of Chickpea and Black Gram as Affected by Domestic Processing and Cooking . . . . .	113
SUDESH JOOD, B. M. CHAUHAN & A. C. KAPOOR (India)	
Off-flavour Reduction in <i>Vicia faba</i> Bean Protein Isolate . . . . .	129
M. SCHULTZ, K. HOPPE & H. SCHMANDKE (GDR)	

The Effect of Cellulose Supplementation of Diets on Gastrointestinal Tract Function of Humans . . . . .	137
M. SZAKÁCS, A. HALÁSZ, I. SAWINSKY, Á. KOVÁCS & L. VÁMOS-VIGYÁZÓ (Hungary)	
Effect of Domestic Processing and Cooking on the Antinutrients of Black Gram . . . . .	149
ANITA KATARIA, B. M. CHAUHAN & SUNITA GANDHI (India)	
<b>Research Note</b>	
Benzyl Isothiocyanate in Onion ( <i>Allium cepa</i> L.) and Mushroom ( <i>Agaricus bisporus</i> )—A Re-examination . . . . .	157
A. B. HANLEY, R. K. HEANEY, J. LEWIS, K. SONES, E. A. SPINKS, A. P. WILKINSON & G. R. FENWICK (UK)	
Book Reviews . . . . .	163
Number 3	
Detection and Evaluation of Lard in Certain Locally Processed and Imported Meat Products . . . . .	167
M. K. E. YOUSSEF, M. B. OMAR (Egypt), A. SKULBERG (Norway) & M. RASHWAN (Egypt)	
Changes in the Quality of Soybean during Storage. Part 2—Effect of Soybean Storage on the Sensory Qualities of the Products made Therefrom . . . . .	181
RANJANA NARAYAN, G. S. CHAUHAN & N. S. VERMA (India)	
A Ripening and Storage Study of Soft Goat Cheese with <i>Penicillium candidum</i> on the Surface . . . . .	191
M. C. MARTÍN-HERNÁNDEZ, M. JUÁREZ & M. RAMOS (Spain)	
Compositional Chemistry of <i>Cassia alata</i> Seeds . . . . .	205
M. E. UKHUN & E. O. IFEHIGH (Nigeria)	
Cholesterol and Fatty Acid Content of Guinea Fowl ( <i>Numida meleagris</i> ) Egg . . . . .	211
TUNDE OGUNTONA & B. L. HUGHES (USA)	
Growth Parameters and Plasma-tissue Fatty Acid Profiles of Rats Fed Rubber Seed Oil . . . . .	219
EMMANUEL N. NWOKOLO & DAVID D. KITTS (Canada)	
Changes in Flour Thiols During Storage, and Improver Action . . . . .	231
J. A. D EWART (UK)	
Book Reviews . . . . .	241
Announcement . . . . .	244

*Number 4*

Electrophoretic Patterns and Thin-layer Chromatography of Common Cheeses in Egypt: Comparison and Quantification . . . . .	245
H. N. HASSAN & S. A. EL-DEEB (Egypt)	
Chemical, Nutritional and Toxicological Studies of Rice Bran Oil . . . . .	257
C. RUKMINI (India)	
Aroma Changes in Mango Juice during Processing and Storage . . . . .	269
S. E. EL-NEMR, I. A. ISMAIL & A. ASKAR (Egypt)	
Analysis of the Pulp and Pulp Oil of the Tucum, ( <i>Astrocaryum vulgare</i> Mart) Fruit . . . . .	277
F. O. J. OBOH & R. A. ODERINDE (Nigeria)	
Chemistry of L-ascorbic Acid Related to Foods . . . . .	289
MING-LONG LIAO & PAUL A. SEIB (USA)	
<b>Research Notes</b>	
Effect of Applied Nutrients on the Starch, Proteins and Sugars in Potatoes . . . . .	313
U. C. SHARMA & B. R. ARORA (India)	
Comparative Volatile Oil Composition of Various Parts from Turkish Bitter Fennel ( <i>Foeniculum vulgare</i> var. <i>vulgare</i> ) . . . . .	319
ATTILA AKGÜL & ALI BAYRAK (Turkey)	