

## INDEX OF VOLUME 29

### *Review*

- HAVRLETOVÁ M., PETRULÁKOVÁ Z., BURGÁROVÁ A., GAGO F., HLINKOVÁ A., ŠTURDÍK E.: Cereal  
 $\beta$ -glucans and their significance for the preparation of functional foods ..... 1
- KOHAJDOVÁ Z., KAROVIČOVÁ J., SCHMIDT Š.: Lupin composition and possible use in bakery ..... 203
- VAŇHA J., KVASNIČKA F.: Methods of detecting plant raw materials in meat products ..... 299
- VELÍŠEK J., CEJPEK K.: Pigments of higher fungi ..... 87

### *Original scientific paper*

- AGHBASHLO M., KIANMEHR M.H., ARABHOSSEINI A., NAZGHELICHI T.: Modelling the carrot  
 thin-layer drying in a semi-industrial continuous band dryer ..... 528
- BALLA K., RAKSZEGI M., LI Z., BÉKÉS F., BENCZE S., VEISZ O.: Quality of winter wheat in relation to heat  
 and drought shock after anthesis ..... 117
- BANU I., STOENESCU G., IONESCU V., APRODU I.: Estimation of the baking quality of wheat flours based  
 on rheological parameters of the mixolab curve ..... 40
- BAROŇ M.: Yeast assimilable nitrogen in South Moravian grape musts and its effect on acetic acid  
 production during fermentation ..... 603
- BARTÁKOVÁ K., DRAČKOVÁ M., BORKOVCOVÁ I., VORLOVÁ L.: Impact of microwave heating  
 on hydroxymethylfurfural content in Czech honeys ..... 328
- BERGEROVÁ E., GODÁLOVÁ Z., SIEKEL P.: Combined effects of temperature, pressure and low pH  
 on the amplification of DNA of plant derived foods ..... 337
- BOVŠKOVÁ H., MÍKOVÁ K.: Factors influencing egg white foam quality ..... 322
- BOYCHEVA S., DIMITROV T., NAYDENOVÁ N., MIHAYLOVA G.: Quality characteristics of yogurt  
 from goat's milk, supplemented with fruit juice ..... 24
- BOŽANIĆ R., LOVKOVIĆ S., JELIČIĆ I.: Optimising fermentation of soymilk with probiotic bacteria ..... 51
- BUCHTOVÁ H., JEŽEK F.: A new look at the assessment of the silver carp (*Hypophthalmichthys molitrix* Val.)  
 as a food fish ; ..... 487
- BUDRYN G., NEBESNY E., KULA J., MAJDA T., KRYSIAK W.: HS-SPME/GC/MS profiles of convectively  
 and microwave roasted Ivory Coast Robusta coffee brews ..... 151
- BUŘIČOVÁ L., ANDJELKOVIC M., ČERMÁKOVÁ A., RÉBLOVÁ Z., JURČEK O., KOLEHMAINEN E., VERHÉ R.,  
 KVASNIČKA F.: Antioxidant capacity and antioxidants of strawberry, blackberry, and raspberry leaves ..... 181
- CABANOVÁ L., ŠKUNTOVÁ O., MATISOVÁ D., PIPOVÁ M.: Development of a scientific study for accessing  
 the criteria under Commission Regulation (EC) 2073/2005 on traditional Slovak sheep cheese "bryndza" ..... 31
- ČANADANOVIĆ-BRUNET J., SAVATOVIĆ S.S., ĆETKOVICIĆ G.S., VULIĆ J.J., DJILAS S.M., MARKOV S.L.,  
 CVETKOVICIĆ D.D.: Antioxidant and antimicrobial activities of beet root pomace extracts ..... 575
- CAPUTO P., FERRI E.N., GIROTTI S., GOZZI S., SARACINO P.: Application of luminescent ATP rapid  
 checks at ready-to-eat foods producing plant ..... 382
- CASADO E.M., CÓRDOBA J.J., ANDRADE M.J., RODRÍGUEZ M.: Design of a method to evaluate yeasts  
 to be used as starter cultures in dry-cured meat products ..... 463
- CHAYJAN R.A., ESNA-ASHARI M.: Effect of moisture content on thermodynamic characteristics of grape:  
 mathematical and artificial neural network modelling ..... 250
- CHIOFALO B., LO PRESTI V., SAMOINI G., D'ALESSANDRO E., CHIOFALO V., LIOTTA L.: Nucleotides  
 in broiler chicken diet: effect on breast muscles quality ..... 308

DAI X.-J., LIU M.-Q., JIN H.-X., JING M.-Y.: Optimisation of solid-state fermentation of <i>Aspergillus niger</i> JL-15 for xylanase production and xylooligosaccharides preparation .....	557
DAMJANOVIĆ-VRATNICA B., ĐAKOV T., ŠUKOVIĆ D., DAMJANOVIĆ J.: Antimicrobial effect of essential oil isolated from <i>Eucalyptus globulus</i> Labill. from Montenegro .....	277
DOBEIC M., KENDA E., MIČUNOVIĆ J., ZDOVC I.: Airborne <i>Listeria</i> spp. in the red meat processing industry .....	441
DRÁBOVÁ L., PULKRABOVÁ J., KALACHOVÁ K., HRADECKÝ J., SUCHANOVÁ M., TOMANIOVÁ M., KOCOUREK V., HAJŠLOVÁ J.: Novel approaches to determination of PAHs and halogenated POPs in canned fish .....	498
ESMAEILI A., ROHANY S., SAFALYAN S., ZAREI S.A.: Microbial transformation of citral by <i>Aspergillus niger</i> -PTCC 5011 and study of the pathways involved .....	610
FU S., GAO J., LIU Y., CHEN H.: Isolation of <i>Cronobacter</i> spp. isolates from infant formulas and their survival in the production process of infant formula .....	391
GLIBOWSKI P., KORDOWSKA-WIATER M., GLIBOWSKA A.: Effect of storage on texture and microbiological stability of o-w emulsions with inulin .....	137
GUO L.-D., YANG L.-J., HUO G.-CH.: Cholesterol removal by <i>Lactobacillus plantarum</i> isolated from homemade fermented cream in Inner Mongolia of China .....	219
HASSANPOURAGHDAM M.B., AKHGARI A.B., AAZAMI M.A., EMARAT-PARDAZ J.: New menthone type of <i>Mentha pulegium</i> L. volatile oil from northwest Iran .....	285
HORNÍČKOVÁ J., KUBEC R., VELÍŠEK J., CEJPEKK., OVESNÁ J., STAVĚLÍKOVÁ H.: Changes of S-alk(en)ylcysteine sulfoxide levels during the growth of different garlic morphotypes .....	373
HRUŠKOVÁ M., ŠVEC I., SEKEROVÁ H.: Colour analysis and discrimination of laboratory prepared pasta by means of spectroscopic methods .....	346
ILKO V., ZELINKOVÁ Z., DOLEŽAL M., VELÍŠEK J.: 3-Chloropropane-1,2-diol fatty acid esters in potato products .....	411
KARAMUCKI T., GARDZIELEWSKA J., RYBARCZYK A., JAKUBOWSKA M., NATALCZYK-SZYMKOWSKA W.: Usefulness of selected methods of colour change measurement for pork quality assessment .....	212
KLARIĆ D.A., KLARIĆ I., VELIĆ D., DRAGOJEVIĆ I.V.: Evaluation of mineral and heavy metal contents in Croatian blackberry wines .....	260
KORDIALIK-BOGACKA E., ANTCAZAK N.: Prediction of beer foam stability from malt components .....	243
KOVAČEVIĆ D., MASTANJEVIĆ K.: Cryoprotective effect of trehalose and maltose on washed and frozen stored beef meat .....	15
KOVAČEVIĆ D., MASTANJEVIĆ K., KORDIĆ J.: Cryoprotective effect of polydextrose on chicken surimi .....	226
KRALÍK P., PŘIKRYLOVÁ VONDRUŠKOVÁ H., SLANÁ I., MORÁVKOVÁ M., PAVLÍK I.: Survival of <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> in homemade smoked pork sausages .....	647
KROČKO M., ČANIGOVÁ M., DUCKOVÁ V., ARTIMOVÁ A., BEZEKOVÁ J., POSTON J.: Antibiotic resistance of <i>Enterococcus</i> species isolated from raw foods of animal origin in South West part of Slovakia .....	655
KRULIKOVSKÁ T., JAROŠOVÁ E., PATÁKOVÁ P.: Evaluation of <i>Rhodotorula</i> growth on solid substrate via a linear mixed effects model .....	400
KRUPA-KOZAK U., WRONKOWSKA M., SORAL-ŚMIETANA M.: Effect of buckwheat flour on microelements and proteins contents in gluten-free bread .....	103
LI X., LI Z., LIN H., SAMEE H.: Effect of power ultrasound on the immunoactivity and texture changes of shrimp ( <i>Penaeus vannamei</i> ) .....	508
LÜ Q., TANG M.-J., CAI J.-R., ZHAO J.-W., VITTAYAPADUNG S.: Vis/NIR hyperspectral imaging for detection of hidden bruises on kiwifruits .....	595
MAŠKOVÁ E., PAULÍČKOVÁ I., RYSOVÁ J., GABROVSKÁ D.: Evidence for wheat, rye, and barley presence in gluten free foods by PCR method – comparison with ELISA method .....	45

MATTHAUS B., ÖZCAN M.M.: Fatty acids, tocopherol, and sterol contents of some <i>Nigella</i> species seed oil ...	145
MITRA J., SHRIVASTAVA S.L., RAO P. S.: Process optimisation in vacuum drying of onion slices.....	586
MRATINIĆ E., POPOVSKI B., MILOŠEVIĆ T., POPOVSKA M.: Evaluation of apricot fruit quality and correlations between physical and chemical attributes .....	161
MU L., ZHAO H., ZHAO M., CUI CH., LIU L.: Physicochemical properties of soy protein isolates-acacia gum conjugates .....	129
NAVRÁTILOVÁ P., BORKOVCOVÁ I., VYHNÁLKOVÁ J., VORLOVÁ J.: Fluoroquinolone residues in raw cow's milk .....	641
NÉMETH C., MRÁZ B., FRIEDRICH L., SUHAJDA Á., JANZSÓ B., BALLA C.: Microbiological measurements for the development of a new preservation procedure for liquid egg .....	569
NOVOTNÁ P., ŠETINOVÁ I., HEROLDOVÁ M., KMÍNKOVÁ M., PRŮCHOVÁ J., STROHALM J., FIEDLEROVÁ V., WINTEROVÁ R., KUČERA P., HOUŠKA M.: Deallergisation trials of pure celery juice and apple-celery juice mixture by oxidation .....	190
OZILGEN S.: Influence of chemical composition and environmental conditions on the textural properties of dried fruit bars .....	539
PAPOUŠKOVÁ L., CAPOUCHOVÁ I., KOSTELANSKÁ M., ŠKEŘÍKOVÁ A., PROKINOVÁ E., HAJŠLOVÁ J., SALAVA J., FAMĚRA O.: Changes in baking quality of winter wheat with different intensity of <i>Fusarium</i> spp. contamination detected by means of new rheological system .....	420
PAVLOUŠEK P., KUMŠTA M.: Profiling of primary metabolites in grapes of interspecific grapevine varieties: sugars and organic acids .....	361
POSPIECH M., TREMLOVÁ B., RENČOVÁ E., RANDULOVÁ Z., ŘEZÁČOVÁ LUKÁŠKOVÁ Z., POKORNÁ J.: Comparison of the results of the ELISA, histochemical, and immunohistochemical detection of soya proteins in meat products .....	471
PRIMORAC L., FLANJAK I., KENJERIĆ D., BUBALO D., TOPOLNJAK Z.: Specific rotation and carbohydrate profile of Croatian unifloral honeys .....	515
QIN C.G., LI Y., NIU W.N., DING Y., SHANG X.Y., XU C.L.: Composition analysis and structural identification of anthocyanins in fruit of waxberry .....	171
RABRENOVIC B., DIMIC E., MAKSIMOVIC M., SOBAJIC S., GAJIC-KRSTAJIC L.: Determination of fatty acid and tocopherol compositions and the oxidative stability of walnut ( <i>Juglans regia</i> L.) cultivars grown in Serbia .....	74
RANDULOVÁ Z., TREMLOVÁ B., ŘEZÁČOVÁ LUKÁŠKOVÁ Z., POSPIECH M., STRAKA I.: Determination of soya protein in model meat products using image analysis .....	318
RAZMAITĖ V., ŠVEISTIENĖ R., ŠVIRMIKAS G.J.: Compositional characteristics and nutritional quality of Eurasian beaver ( <i>Castor fiber</i> ) meat .....	480
ROP O., BALÍK J., ŘEZNIČEK V., JURÍKOVÁ T., ŠKARDOVÁ P., SALAŠ P., SOCHOR J., MLČEK J., KRAMÁŘOVÁ D.: Chemical characteristics of fruits of some selected quince ( <i>Cydonia oblonga</i> Mill.) cultivars .....	65
ŠÁRKA E., KRULIŠ Z., KOTEK J., RŮŽEK L., KORBÁŘOVÁ A., BUBNÍK Z., RŮŽKOVÁ M.: Application of wheat B-starch in biodegradable plastic materials .....	232
SEDLÁČKOVÁ P., ČEŘOVSKÝ M., HORSÁKOVÁ I., VOLDŘICH M.: Cell surface characteristic of <i>Asaia</i> <i>bogorensis</i> – spoilage microorganism of bottled water .....	457
ŠMIDRKAL J., ILKO V., FILIP V., DOLEŽAL M., ŽELINKOVÁ Z., KYSELKA J., HRÁDKOVÁ I., VELÍŠEK J.: Formation of acylglycerol chloro derivatives in vegetable oils and mitigation strategy .....	448
SOSVOROVÁ L., LANKOVÁ P., BIČÍKOVÁ M., PROKUDINA E.A., AL MALARIK N., LAPČÍK O.: ELISA for free S-equol in human urine .....	57
SREBOČAN E., PREVENDAR CRNIĆ A.P., EKERT-KABALIN A.M.E., LAZARUS M., JURASOVIĆ J., TOMLJANOVIĆ K., ANDREIĆ D., STRUNJAK PEROVIĆ I.S., ČOŽ-RAKOVAC R.: Cadmium, lead, and mercury concentrations in tissues of roe deer ( <i>Capreolus capreolus</i> L.) and wild boar ( <i>Sus scrofa</i> L.) from Lowland Croatia .....	634

---

ŠUBARIĆ D., BABIĆ J., LALIĆ A., AČKAR Đ., KOPJAR M.: Isolation and characterisation of starch from different barley and oat varieties .....	354
TÖMÖSKÖZI S., GYENGE L., PELCÉDER A., ABONYI T., LÁSZTITY R.: The effects of flour and protein preparations from amaranth and quinoa seeds on the rheological properties of wheat-flour dough and bread crumb .....	109
TOTUŠEK J., TŘÍSKA J., LEFNEROVÁ D., STROHALM J., VRCHOTOVÁ N., ZENDULKA O., PRŮCHOVÁ J., CHALOUPKOVÁ J., NOVOTNÁ P., HOUŠKA M.: Contents of sulforaphane and total isothiocyanates, antimutagenic activity, and inhibition of clastogenicity in pulp .....	548
TEENG YU-H., YANG J.-H., LEE CH.-E., MAU J.-L.: Quality of shiitake stipe steamed bun .....	79
VAR I., ERGINKAYA Z., KABAK B.: Inhibition of ochratoxin A production of <i>Aspergillus carbonarius</i> by yeast species .....	291
WIWART M., PERKOWSKI J., BUDZYŃSKI W., SUCHOWILSKA E., BUŚKO M., MATYSIAK A.: Concentrations of ergosterol and trichothecenes in the grains of three <i>Triticum</i> species .....	430
YU L., ZHANG X., JIN J., CHE S., YU L.: Simultaneous determination of chloride, bromide and iodide in foodstuffs by low pressure ion-exchange chromatography with visible light detection .....	524
ZENG J., GAO H., LI G., LIANG X.: Extruded corn flour changed the functionality behaviour of blends .....	520
ZHANG A.-J., QIN Q.-L., ZHANG H., WANG H.-T., LI X., MIAO L., WU Y.-J.: Preparation and characterisation of food-grade chitosan from housefly larvae .....	616
ZHANG W., HE J., PAN Q., HAN F., DUAN C.: Separation and character analysis of anthocyanins from mulberry ( <i>Morus alba</i> L.) pomace .....	268

#### ***A biographical notice***

DAVÍDEK J.: Prof. Ing. JAN VELÍŠEK, DrSc., Chairman of our Journal celebrates his 65 <sup>th</sup> birthday anniversary ....	201
--	-----

#### ***A biographical notice***

DAVÍDEK J., VELÍŠEK J.: Prof. Ing. JAN POKORNÝ, DrSc., Member of the Editorial Board of our journal, passed away .....	660
--	-----

## AUTHORS INDEX

**A**

AAZAMI M.A. ... 285  
 ABONYI T. ... 109  
 AČKAR Đ. ... 354  
 AGHBASHLO M. ... 528  
 AKHGARI A.B. ... 285  
 AL MALARIK N. ... 57  
 AMIDŽIĆ KLARIĆ D. ... 260  
 AMIR Z.S. ... 610  
 ANDJELKOVIC M. ... 181  
 ANDRADE M.J. ... 463  
 ANDREIĆ D. ... 624  
 ANTCZAK N. ... 243  
 APRODU I. ... 35  
 ARABHOSSEINI A. ... 528  
 ARTIMOVÁ A. ... 654

**B**

BABIĆ J. ... 354  
 BALÍK J. ... 65  
 BALLA C. ... 569  
 BALLA K. ... 117  
 BANU I. ... 35  
 BAROŇ M. ... 603  
 BARTÁKOVÁ K. ... 328  
 BÉKÉS F. ... 117  
 BENCZE S. ... 117  
 BERGEROVÁ E. ... 337  
 BEZEKOVÁ J. ... 654  
 BIČÍKOVÁ M. ... 57  
 BORKOVCOVÁ I. ... 328, 641  
 BOVŠKOVÁ H. ... 322  
 BOYCHEVA S. ... 24  
 Božanić R. ... 51  
 BUBALO D. ... 515  
 BUBNÍK Z. ... 232  
 BUDRYN G. ... 151  
 BUDZYŃSKI W. ... 430  
 BUCHTOVÁ H. ... 487  
 BURGÁROVÁ A. ... 1  
 BUŘIČOVÁ L. ... 181  
 Buško M. ... 430

**C**

CABANOVÁ L. ... 31  
 CAI J.-R. ... 595  
 ČANADANOVIĆ-BRUNET J.M. ... 575  
 ČANIGOVÁ M. ... 654  
 CAPOUCHOVÁ I. ... 420  
 CAPUTO P. ... 382  
 CASADO E.M. ... 463  
 CEJPEK K. ... 87, 373

ČERMÁKOVÁ A. ... 181  
 ČEŘOVSKÝ M. ... 457  
 ČETKOVIĆ G.S. ... 575  
 CHALOUPKOVÁ J. ... 548  
 CHAYJAN R.A. ... 250  
 CHEN H. ... 391  
 CHE S. ... 634  
 CHIOFALO B. ... 308  
 CHIOFALO V. ... 308  
 Čož-RAKOVAC R. ... 624  
 CÓRDOBA J.J. ... 463  
 CUI Ch. ... 129  
 CVETKOVIĆ D.D. ... 575

**D**

DAI X.-J. ... 557  
 D'ALESSANDRO E. ... 308  
 DAMJANOVIĆ J. ... 277  
 DAMJANOVIĆ-VRATNICA B. ... 277  
 ĐAKOV T. ... 277  
 DAVÍDEK J. ... 201, 660  
 DIMIC E. ... 74  
 DIMITROV T. ... 24  
 DING Y. ... 171  
 DJILAS S.M. ... 575  
 DOBEIC M. ... 441  
 DOLEŽAL M. ... 411, 448  
 DRÁBOVÁ L. ... 498  
 DRAGOJEVIĆ I.V. ... 260  
 DRAČKOVÁ M. ... 328  
 DUAN C. ... 268  
 DUCKOVÁ V. ... 654

**E**

EKERT KABALIN A.M. ... 624  
 EMARAT-PARDAZ J. ... 285  
 ERGINKAYA Z. ... 291  
 ESMAEILI A. ... 610  
 ESNA-ASHARI M. ... 250

**F**

FAMĚRA O. ... 420  
 FERRI E.N. ... 382  
 FIEDLEROVÁ V. ... 190  
 FILIP V. ... 448  
 FLANJAK I. ... 515  
 FRIEDRICH L. ... 569  
 FU S. ... 391

**G**

GABROVSKÁ D. ... 45  
 GAGO F. ... 1

- GAJIC-KRSTAJIC L. ... 74  
 GAO H. ... 520  
 GAO J. ... 391  
 GARDZIELEWSKA J. ... 212  
 GIROTTI S. ... 382  
 GLIBOWSKA A. ... 137  
 GLIBOWSKI P. ... 137  
 GODÁLOVÁ Z. ... 337  
 GOZZI S. ... 382  
 GUO L.-D. ... 219  
 GYENGE L. ... 109
- H**  
 HAJŠLOVÁ J. ... 420, 498  
 HAN F. ... 268  
 HASSANPOURAGHDAM M.B. ... 285  
 HAVRENTOVÁ M. ... 1  
 HE J. ... 268  
 HEROLDOVÁ M. ... 190  
 HLINKOVÁ A. ... 1  
 HORNÍČKOVÁ J. ... 373  
 HORSÁKOVÁ I. ... 457  
 HOUŠKA M. ... 190, 548  
 HRADECKÝ J. ... 498  
 HRÁDKOVÁ I. ... 448  
 HRUŠKOVÁ M. ... 346  
 HUO G.-CH. ... 219
- I**  
 ILKO V. ... 411, 448  
 IONESCU V. ... 35
- J**  
 JAKUBOWSKA M. ... 212  
 JANZSÓ B. ... 569  
 JAROŠOVÁ E. ... 400  
 JELIČIĆ I. ... 51  
 JEŽEK F. ... 487  
 JIN H.-X. ... 557  
 JIN J. ... 534  
 JING M.-Y. ... 557  
 JURASOVIĆ J. ... 624  
 JURČEK O. ... 181  
 JURÍKOVÁ T. ... 65
- K**  
 KABAK B. ... 291  
 KALACHOVÁ K. ... 498  
 KARAMUCKI T. ... 212  
 KAROVIČOVÁ J. ... 203  
 KENDA E. ... 441  
 KENJERIĆ D. ... 515  
 KIANMEHR M.H. ... 528  
 KLARIĆ D.A. ... 260  
 KLARIĆ I. ... 260  
 KMÍNKOVÁ M. ... 190  
 KOCOUREK V. ... 498
- KOHAJDOVÁ Z. ... 203  
 KOLEHMAINEN E. ... 181  
 KOPJAR M. ... 354  
 KORBÁŘOVÁ A. ... 232  
 KORDIALIK-BOGACKA E. ... 243  
 KORDIĆ J. ... 226  
 KORDOWSKA-WIATER M. ... 137  
 KOSTELANSKÁ M. ... 420  
 KOTEK J. ... 232  
 KOVAČEVIĆ D. ... 15, 226  
 KRÁLÍK P. ... 547  
 KRAMÁŘOVÁ D. ... 65  
 KROČKO M. ... 654  
 KRULIKOVSKÁ T. ... 400  
 KRULIŠ Z. ... 232  
 KRUPA-KOZAK U. ... 103  
 KRYSIAK W. ... 151  
 KUBEC R. ... 373  
 KUČERA P. ... 190  
 KULA J. ... 151  
 KUMŠTA M. ... 361  
 KVASNIČKA F. ... 181  
 KYSELKA J. ... 448
- L**  
 LALIĆ A. ... 354  
 LANKOVÁ P. ... 57  
 LAPČÍK O. ... 57  
 LÁSZTITY R. ... 109  
 LAZARUS M. ... 324  
 LEE CH.-E. ... 79  
 LEFNEROVÁ D. ... 548  
 LI G. ... 520  
 LI X.... 516  
 LIANG X. ... 520  
 LIN H. ... 508  
 LIOTTA L. ... 308  
 LIU L. ... 129  
 LIU M.-Q. ... 557  
 LIU Y. ... 391  
 LI X.Y. ... 508  
 LI Y. ... 171  
 LI Z. ... 117  
 LI Z.-X. ... 508  
 LO PRESTI V. ... 308  
 LOVKOVIĆ S. ... 51  
 LÜ Q. ... 495
- M**  
 MAJDA T. ... 151  
 MAKSIMOVIC M. ... 74  
 MARKOV S.L. ... 475  
 MASTANJEVIĆ K. ... 15  
 MAŠKOVÁ E. ... 45  
 MATISOVÁ D. ... 31  
 MATTHAUS B. ... 145

MATYSIAK A. ... 430

MAU J.-L. ... 79

MIAO L. ... 616

MIČUNOVÍČ J. ... 441

MIHAYLOVÁ G. ... 24

MÍKOVÁ K. ... 322

MILOŠEVIĆ T. ... 161

MITRA J. ... 586

MLČEK J. ... 65

MORÁVKOVÁ M. ... 647

MRATINIĆ E. ... 161

MRÁZ B. ... 569

MU L. ... 129

**N**

NATALCZYK-SZYMКОWSKA W. ... 212

NAVRÁTILOVÁ P. ... 641

NAYDENOVÁ N. ... 24

NAZGHELICHI T. ... 528

NEBESNY E. ... 151

NÉMETH C. ... 569

NIU W.N. ... 171

NOVOTNÁ P. ... 190, 548

**O**

OVESNÁ J. ... 373

ÖZCAN M.M. ... 145

OZILGEN S. ... 539

**P**

PAN Q. ... 268

PAPOUŠKOVÁ L. ... 420

PATÁKOVÁ P. ... 400

PAULÍČKOVÁ I. ... 45

PAVLÍK I. ... 647

PAVLOUŠEK P. ... 361

PELCÉDER A. ... 109

PERKOWSKI J. ... 430

PETRULÁKOVÁ Z. ... 1

PIPOVÁ M. ... 31

POKORNÁ J. ... 471

POPOVSKA M. ... 161

POPOVSKI B. ... 161

POSPIECH M. ... 318, 471

POSTON J. ... 654

PREVENDAR CRNIĆ A. ... 624

PRIMORAC LJ. ... 515

PROKINOVÁ E. ... 420

PROKUDINA E.A. ... 57

PRŮCHOVÁ J. ... 190, 548

PŘIKRYLOVÁ VONDRUŠKOVÁ H. ... 647

PULKRABOVÁ J. ... 498

**Q**

QIN C.G. ... 171

QIN Q.-L.... 516

**R**

RABRENOVIC B. ... 74

RAKSZEGI M. ... 117

RANDULOVÁ Z. ... 318, 471

RAO P.S. ... 586

RAZMAITĖ V. ... 480

RÉBLOVÁ Z. ... 181

RENČOVÁ E. ... 471

ŘEZÁČOVÁ LUKÁŠKOVÁ Z. ... 318, 471

ŘEZNÍČEK V. ... 65

RODRÍGUEZ M. ... 463

ROHANY S. ... 610

ROP O. ... 65

RŮŽEK L. ... 232

RŮŽKOVÁ M. ... 232

RYBARCZYK A. ... 212

RYSOVÁ J. ... 45

**S**

SAFAIYAN S. ... 610

SALAŠ P. ... 65

SALAVA J. ... 420

SAMOINI G. ... 303

SAMEE H. ... 508

SARACINO P. ... 382

ŠÁRKOVÁ E. ... 232

SAVATOVIĆ S.S. ... 575

SAVOINI G. ... 308

SEDLÁČKOVÁ P. ... 457

SEKEROVÁ H. ... 346

ŠETINOVÁ I. ... 190

SHANG X.Y. ... 171

SHRIVASTAVA S.L. ... 586

SCHMIDT Š. ... 203

SIEKEL P. ... 337

ŠKARDOVÁ P. ... 65

ŠKEŘÍKOVÁ A. ... 420

ŠKUNTOVÁ O. ... 31

SLANÁ I. ... 647

ŠMIDRKAL J. ... 448

SOBAJIC S. ... 74

SOCHOR J. ... 65

SORAL-ŠMIETANA M. ... 103

SOSVOROVÁ L. ... 57

SREBOČAN E. ... 624

STAVĚLKOVÁ H. ... 373

STOENESCU G. ... 35

STRAKA I. ... 318

STROHALM J. ... 190, 548

STRUNJAK PEROVIĆ I. ... 624

ŠTURDÍK E ... 1

ŠUBARIĆ D. ... 354

SUHAJDA A. ... 569

SUCHANOVÁ M. ... 498

SUCHOWILSKA E. ... 430

ŠUKOVIĆ D. ... 277

ŠVEC I. ... 346  
 ŠVEISTIENĖ R. ... 480  
 ŠVIRMICKAS G.J. ... 480

**T**

TANG M.-J. ... 595  
 TOMANIOVÁ M. ... 498  
 TOMLJANOVIĆ K. ... 624  
 TÖMÖSKÖZI S. ... 109  
 TOPOLNJAČA Z. ... 515  
 TOTUŠEK J. ... 548  
 TREMLOVÁ B. ... 318, 471  
 TŘÍSKA J. ... 548  
 TSENG Y.-H. ... 79

**V**

VAŇHA J. ... 299  
 VAR I. ... 291  
 VEDRINA DRAGOJEVIĆ I. ... 260  
 VEISZ O. ... 117  
 VELIĆ D. ... 260  
 VELÍŠEK J. ... 87, 373, 411, 448, 660  
 VERHÉ R. ... 181  
 VITTAYAPADUNG S. ... 595  
 VOLDŘICH M. ... 457  
 VORLOVÁ L. ... 328, 541  
 VRCHOTOVÁ N. ... 548  
 VULIĆ J.J. ... 575  
 VYHNÁLKOVÁ J. ... 641

**W**

WANG H.-T. ... 616  
 WINTEROVÁ R. ... 190  
 WIWART M. ... 430  
 WRONKOWSKA M. ... 103  
 WU Y.-J. ... 616

**X**

XU C.L. ... 171

**Y**

YANG J.-H. ... 79  
 YANG L.-J. ... 219  
 YU L. ... 634  
 YU L. Y. ... 634

**Z**

ZDOVC I. ... 441  
 ZELINKOVÁ Z. ... 411, 448  
 ZENDULKA O. ... 548  
 ZENG J. ... 520  
 ZHANG A.-J. ... 616  
 ZHANG H.... 616  
 ZHANG W. ... 268  
 ZHANG X. ... 634  
 ZHAO H. ... 129  
 ZHAO J.-W. ... 595  
 ZHAO M. ... 129

## AUTHOR INSTITUTIONS INDEX

### AUSTRALIA

- CSIRO Food Future Flagship, North Ryde, Sydney ..... 117  
CSIRO Division of Plant Industry, Canberra ..... 117

### AUSTRIA

- University of Natural Resources and Life Sciences, Department of Food Science and Technology, Vienna ... 109

### BELGIUM

- Ghent University, Department of Organic Chemistry, Ghent ..... 181

### BOSNIA AND HERZEGOVINA

- Department of Public Health, Brčko ..... 260

### BULGARIA

- Trakia University, Faculty of Agriculture, Department of Biochemistry and Microbiology, Stara Zagora ..... 24

### CANADA

- University of Manitoba, Department of Animal Science, Winnipeg ..... 557

### CROATIA

- Agricultural Institute, Osijek ..... 354  
Institute for Medical Research and Occupational Health, Zagreb ..... 624  
Jamnica d.d, Gorica Svetojanska ..... 51  
Rudjer Bosković Institute, Zagreb ..... 924  
University of J.J. Strossmayer in Osijek, Faculty of Food Technology, Osijek ..... 15, 226, 260, 354, 515  
University of Zagreb, Zagreb  
    Faculty of Agriculture ..... 515  
    Faculty of Food Technology and Biotechnology ..... 51, 354  
    Faculty of Forestry ..... 624  
    Faculty of Pharmacy and Biochemistry, Department of Food Chemistry ..... 260  
    Faculty of Veterinary Medicine, Department of Pharmacology and Toxicology ..... 624

### CZECH REPUBLIC

- Central Institute for Supervising and Testing in Agriculture, Brno ..... 232  
Crop Research Institute, Prague ..... 373, 420  
Czech University of Life Sciences Prague, Faculty of Agrobiology, Food and Natural Resources, Prague .... 232, 420  
Faculty Hospital Kralovské Vinohrady, Department of Allergology and Clinical Immunology, Prague ..... 190  
Food Research Institute Prague, Prague ..... 45, 190, 548  
Institute of Experimental Botany, Academy of Sciences of the Czech Republic, Isotope Laboratory, Prague 181  
Imumed s.r.o., Prague ..... 190  
Institute of Chemical Technology in Prague, Prague  
    Faculty of Food and Biochemical Technology  
        Department of Carbohydrate Chemistry and Technology ..... 232, 346

Department of Chemistry of Natural Compounds .....	57, 181
Department of Dairy and Fat Technology .....	448
Department of Fermentation Chemistry and Bioengineering .....	400
Department of Food Chemistry and Analysis .....	87, 181, 322, 373, 411, 420, 448, 498
Department of Food Preservation and Meat Technology .....	181, 299, 457
Faculty of Chemical Engineering, Department of Physics .....	232
Institute of Endocrinology, Department of Steroid Hormones, Prague .....	57
Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague .....	232
Institute of Systems Biology and Ecology, Academy of Sciences of the Czech Republic, České Budějovice ...	548
Masaryk University, Faculty of Medicine, Brno .....	548
Mendel University in Brno, Faculty of Horticulture, Lednice na Moravě	
Department of Post-Harvest Technology of Horticultural Products .....	65
Department of Breeding and Propagation of Horticultural Plants .....	65
Department of Viticulture and Oenology .....	361, 603
Palacky University Olomouc, Faculty of Education, Department of Biology, Olomouc .....	65
Professional Consultant, Brno .....	318
Proteix s.r.o., Vestec .....	457
Skoda Auto University, Mladá Boleslav .....	400
Tomas Bata University in Zlín, Faculty of Technology, Zlín	
Department of Food Technology and Microbiology .....	65
Department of Food Biochemistry and Analysis .....	65
University of South Bohemia, Faculty of Agriculture, Department of Applied Chemistry, České Budějovice .....	373
University of Veterinary and Pharmaceutical Sciences Brno, Faculty of Veterinary Hygiene and Ecology, Brno	
Department of Meat Hygiene and Technology .....	318, 328, 487, 641
Department of Vegetable Foodstuffs and Plant Production .....	318, 471
Veterinary Research Institute, Brno .....	471, 647
<b>FINLAND</b>	
University of Jyväskylä, Department of Chemistry, Laboratory of Organic Chemistry, Jyväskylä .....	181
VTT Technical Research Center of Finland, Espoo .....	285
<b>GERMANY</b>	
Institute for Lipid Research, Federal Research Center for Nutrition and Food, Munster .....	145
<b>HUNGARY</b>	
Agricultural Research Institute of the Hungarian Academy of Sciences, Martonvásár .....	117
Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology, Department of Applied Biotechnology and Food Science, Budapest .....	109, 569
Corvinus University of Budapest, Faculty of Food Science, Department of Refrigeration and Livestock Products Technology, Budapest .....	569
<b>INDIA</b>	
Indian Institute of Technology, Department of Agricultural and Food Engineering, Kharagpur .....	586
<b>IRAN</b>	
Bu-Ali Sina University, Faculty of Agriculture, Hamedan Department of Agricultural Machinery Engineering .....	250

Department of Horticultural Sciences .....	250
Islamic Azad University, North Tehran Branch, Department of Chemical Engineering, Tehran .....	610
Islamic Azad University, Sanandaj Branch, Department of Biology, Sanandaj .....	610
University of Maragheh, Faculty of Agriculture, Department of Horticultural Sciences, Maragheh .....	285
University of Tabriz, Faculty of Agriculture, Department of Agronomy and Plant Breeding, Tabriz .....	285
University of Tehran, College of Abouraihan, Department of Agrotechnology, Pakdasht .....	528
<b>ITALY</b>	
CAMST Scrl, Bologna .....	382
University of Messina. Faculty of Veterinary Medicine, Department of Morphology, Biochemistry, Physiology and Animal Production, Messina .....	308
University of Milano, Faculty of Veterinary Medicine, Department of Veterinary Sciences and Technologies for Food Safety, Milano .....	308
University of Bologna, Department of Metallurgic Science, Electrochemistry and Chemical Techniques, Bologna .....	382
<b>LITHUANIA</b>	
Lithuanian University of Health Sciences, Institute of Animal Science of Veterinary Academy, Baisogala, Radviliškis district .....	480
<b>MACEDONIA</b>	
Fruit Growing Institute, Skopje .....	161
University of Kragujevac Cacak, Faculty of Agronomy, Serbia Fruit Growing Institute, Skopje .....	161
University of "Sts. Cyril and Methodius", Faculty of Agricultural Sciences and Food, Skopje .....	161
<b>MONTENEGRO</b>	
Center for Ecotoxicological Researches of Montenegro, Podgorica .....	277
Institute for Public Health Montenegro, Podgorica .....	277
University of Montenegro, Faculty of Metallurgy and Technology, Podgorica .....	277
<b>P.R. CHINA</b>	
China Agricultural University, College of Food Science and Nutritional Engineering, Centre for Viticulture and Enology, Beijing .....	268
China Jiliang University, College of Life Science and College of Materials Science and Engineering, Department of Food Science, Hangzhou .....	557
Chinese Academy of Sciences, Beijing	
Institute of Microbiology, State Key Laboratory of Microbial Resources .....	391
Institute of Zoology, State Key Laboratory of Integrated Management of Pest Insects and Rodents .....	516
Graduate University of Chinese Academy of Sciences, Beijing .....	616
Heilongjiang University of Chinese Medicine, Pharmaceutical College, Harbin, Heilongjiang .....	219
Henan Institute of Science and Technology, School of Food Science, Xinxiang .....	520
Henan University of Technology, School of Information Science and Engineering, Zhengzhou, Henan .....	595
Jiangsu University, School of Food and Biological Engineering, Zhenjiang, Jiangsu .....	595
Nanchang Center for Disease Control and Prevention, Nanchang .....	391
Northeast Agricultural University, Key Laboratory of Dairy Science of Ministry of Education, Harbin, Heilongjiang .....	219
Northwestern Polytechnical University, Faculty of Life Science, Xi'an, Shaanxi .....	171

Ocean University of China, Food Safety Laboratory, Qingdao .....	508
Shijiazhuang University, School of Chemical Engineering, Hebei .....	268
Sichuan University, Chengdu, Sichuan	

Light Industry & Textile & Food Engineering .....	634
---	-----

State Key Laboratory of Hydraulics and the Exploitation and Protection of Mountain Rivers .....	634
---	-----

South China University of Technology, College of Light Industry and Food Sciences, Guangzhou .....	129
--	-----

Technology Center of Sichuan Entry-Exit Inspection and Quarantine Bureau, Chengdu, Sichuan .....	634
--	-----

#### **POLAND**

Institute of Animal Reproduction and Food Research, Polish Academy of Sciences, Olsztyn .....	103
---	-----

Poznań University of Life Sciences, Department of chemistry, Poznań .....	430
---	-----

Technical University of Lodz, Faculty of Biotechnology and Food Sciences, Lodz	
--	--

Institute of Fermentation Technology and Microbiology .....	151, 243
---	----------

Institute of Fundamentals of Food Chemistry .....	151
---	-----

University of Life Sciences in Lublin, Faculty of Food Science and Biotechnology, Lublin	
--	--

Department of Milk Technology and Hydrocolloids .....	137
---	-----

Department of Biotechnology, Human Nutrition and Science of Food Commodities .....	137
--	-----

University of Warmia and Mazury, Olsztyn	
--	--

Department of Plant Breeding and Seed Production .....	430
--	-----

Department of Agrotechnology and Crop Management .....	430
--	-----

West Pomeranian University of Technology, Faculty of Biotechnology and Animal Breeding,	
---	--

Institute of Livestock Product Evaluation, Szczecin .....	212
---	-----

#### **ROMANIA**

"Dunărea de Jos" University, Faculty of Food Science and Engineering, Galați .....	35
--	----

Romania Research Laboratory Arcada, Arcada Mill, Lunca Siretului .....	35
--	----

#### **SERBIA**

Institute of Hygiene, Military Medical Academy, Belgrade .....	74
--	----

University of Belgrade, Belgrade	
----------------------------------	--

Faculty of Agriculture, Department of Fruit Growing .....	74, 161
---	---------

Faculty of Pharmacy, Department of Bromatology .....	74
--	----

Faculty of Technology and Metallurgy .....	277
--	-----

University of Kragujevac, Faculty of Agronomy, Cacak .....	74
--	----

University of Novi Sad, Faculty of Technology, Novi Sad .....	74, 675
---	---------

#### **SLOVAK REPUBLIC**

Constantine the Philosopher University in Nitra, Faculty of Central European Studies,	
---	--

Department of Natural and Informatics Sciences, Nitra .....	65
---	----

Food Research Institute, Department of Microbiology, Molecular Biology and Biotechnology, Bratislava ....	337
---	-----

Plant Production Research Centre, Research Institute of Plant Production, Piešťany .....	1
--	---

Slovak University of Technology, Faculty of Chemistry and Food Technology, Bratislava	
---	--

Institute of Biochemistry, Nutrition and Health Protection, Department of Nutrition and Food	
--	--

Evaluation .....	1
------------------	---

Institute of Biochemical and Food Technology, Department of Food Science and Technology .....	203
---	-----

State Veterinary and Food Institute, Dolny Kubin .....	31
--	----

Slovak Agricultural University in Nitra, Faculty of Biotechnology and Food Sciences, Department of Evaluation and Processing Animal Products, Nitra .....	654
University of SS. Cyril and Methodius in Trnava, Faculty of Natural Sciences, Department of Biotechnologies, Trnava .....	1
University of Veterinary Medicine, Department of Food Hygiene and Food Technology, Košice .....	31
<b>SLOVENIA</b>	
University of Ljubljana, Veterinary Faculty, Ljubljana	
Institute for Environmental and Animal Hygiene with Ethology .....	441
Institute for Microbiology and Parasitology .....	441
<b>SPAIN</b>	
University of Extremadura, Faculty of Veterinary Science, Food Hygiene and Safety, Cáceres .....	463
<b>THAILAND</b>	
Chiang Mai University, Department of Mechanical Engineering, FAME Laboratory, Chiang Mai .....	595
<b>TAIWAN, ROC</b>	
National Chung-Hsing University, Department of Food Science and Biotechnology, Taichung .....	79
National Kaohsiung University of Hospitality and Tourism, Department of Culinary Arts, Kaohsiung .....	79
Shih Chien University, Department of Restaurant and Institutional Management, Taipei .....	79
<b>TURKEY</b>	
Cukurova University, Agricultural Faculty, Department of Food Engineering, Adana .....	291
Hitit University, Faculty of Engineering, Department of Food Engineering, Corum .....	291
Selcuk University, Faculty of Agriculture, Department of Food Engineering, Konya .....	145
Yeditepe University, Faculty of Engineering and Architecture, Department of Food Engineering, Istanbul .....	539
<b>UK</b>	
University of Dundee, College of Life Sciences, Division of Biological Chemistry and Drug Discovery, Sir James Black Centre, Dundee .....	57
<b>USA</b>	
West Virginia University, West Virginia.....	654

## LIST OF REVIEWERS

In 2011, 154 reviewers from 27 countries have been addressed.  
Their valuable help to the authors is greatly appreciated.

- ADÁMEK Z. (Brno, Czech Republic)  
ALMEIDA A. (Porto, Portugal)  
AMBROŽOVÁ ŘÍHOVÁ J. (Prague, Czech Republic)  
AMRAME A. (Rennes, France)  
BALLHORN D. (Essen, Germany)  
BARREAU C. (Bordeaux, France)  
BAUER F. (Vienna, Austria)  
BLAHOVEC J. (Prague, Czech Republic)  
BLANDINO B. (Turin, Italy)  
BORREGO J.J. (Malaga, Spain)  
BožANIĆ R. (Zagreb, Croatia)  
BUCHTOVÁ H. (Brno, Czech Republic)  
BURDOVÁ O. (Košice, Slovakia)  
CARLE R. (Stuttgart, Germany)  
CEJPEK K. (Prague, Czech Republic)  
CELBA J. (Prague, Czech Republic)  
COIMBRA M.A. (Aveiro, Portugal)  
CVRTILA FLECK Ž. (Zagreb, Croatia)  
ČAJKA T. (Prague, Czech Republic)  
ČERTÍK M. (Bratislava, Slovakia)  
ČEŘOVSKÝ M. (Prague, Czech Republic)  
ČMOLÍK J. (Ústí nad Labem, Czech Republic)  
ČOPÍKOVÁ J. (Prague, Czech Republic)  
COS P. (Antwerp, Belgium)  
ČURDA D. (Prague, Czech Republic)  
ČURDA L. (Prague, Czech Republic)  
DAVÍDEK J. (Prague, Czech Republic)  
DELGADO F. (Buenos Aires, Argentina)  
DEMNEROVÁ K. (Prague, Czech Republic)  
DE KIMPE N. (Gent, Belgium)  
DONOVAN M.D. (Beltsville, USA)  
DOSTÁLEK P. (Prague, Czech Republic)  
DRAŠAR P. (Prague, Czech Republic)  
DVOŘÁČEK V. (Prague, Czech Republic)  
EDER R. (Klosterneuburg, Austria)  
EMPIS J.A. (Lisbon, Portugal)  
EUSTON S. (Edinburgh, United Kingdom)  
FERREIRA I. (Braganca, Portugal)  
FIALA J. (Prague, Czech Republic)  
FIGIEL A. (Wroclaw, Poland)  
FILIP V. (Prague, Czech Republic)  
FUKAL L. (Prague, Czech Republic)  
GABROVSKÁ D. (Prague, Czech Republic)  
GALMARINI C.R. (Mendoza, Argentina)  
GIACCONE V. (Padova, Italy)  
GOMES DA CRUZ A. (Campinas, Spain)  
GREIFOVÁ M. (Bratislava, Slovakia)  
GUO M. (Burlington, USA)  
HALÁSZ A. (Budapest, Hungary)  
HALOUZKA R. (Brno, Czech Republic)  
HAMLET C. (High Wycombe, United Kingdom)  
HOFFMANN C. (Göttingen, Germany)  
HOLASOVÁ M. (Prague, Czech Republic)  
HOLST-JENSEN A. (Oslo, Norway)  
HOUŠKA M. (Prague, Czech Republic)  
HRÁDKOVÁ I. (Prague, Czech Republic)  
CHUMCHALOVÁ J. (Prague, Czech Republic)  
JAGLIC Z. (Brno, Czech Republic)  
JELEN P. (Edmonton, Canada)  
JOVANOVIĆ S. (Beograd, Serbia)  
JUKIĆ M. (Osijek, Croatia)  
KALAČ P. (České Budějovice, Czech Republic)  
KAMENÍK J. (Brno, Czech Republic)  
KARPÍŠKOVÁ R. (Brno, Czech Republic)  
KELLNER V. (Prague, Czech Republic)  
KIZEK R. (Brno, Czech Republic)  
KNETSCH M.W. (Maastricht, The Netherlands)  
KOCEVA KOMLENIC D. (Osijek, Croatia)  
KOMPRDA T. (Brno, Czech Republic)  
KONCZAK I. (North Ryde, Australia)  
KOSTELANSKÁ M. (Prague, Czech Republic)  
KOUŘIMSKÁ L. (Prague, Czech Republic)  
KROECKEL L. (Kulmbach, Germany)  
KUBÁTOVÁ A. (Grand Forks, USA)  
KUCHTA T. (Bratislava, Slovakia)  
KULIK T. (Olsztyn, Poland)  
LACHENMEIER D.W. (Karlsruhe, Germany)  
LÁSZTITÝ R. (Budapest, Hungary)  
LIU D. (Starkville, USA)  
LIU K. (Aberdeen, USA)

- LOURENCO A.A. (Lisbon, Portugal)  
LUKIĆ I. (Poreč, Croatia)  
MASPOCH S. (Barcelona, Spain)  
MASTANJEVIC K. (Osijek, Croatia)  
MAŠTOVSKÁ K. (Covance, USA)  
MATTHÄUS B. (Detmold, Germany)  
MENDES-FAIA A. (Vila Real, Portugal)  
MIGDAL W. (Krakow, Poland)  
MÍKOVÁ K. (Prague, Czech Republic)  
MORGUNOV I.G. (Pushchino, Russia)  
MURKOVIC M. (Graz, Austria)  
ONO E.Y.S. (Londrina, Brasil)  
ONDROUŠEK S. (Prague, Czech Republic)  
PANIWNYK L. (Coventry, United Kingdom)  
PANOVSKÁ Z. (Prague, Czech Republic)  
PAPPA E.C. (Ioannina, Greece)  
PAULSEN P. (Vienna, Austria)  
PAVLOUŠEK P. (Lednice, Czech Republic)  
PAZLAROVA J. (Prague, Czech Republic)  
PELEGRINI N. (Parma, Italy)  
PEREZ M.D. (Zaragoza, Spain)  
PEÑA-ALVAREZ A. (Mexico City, Mexico)  
PIPEK P. (Prague, Czech Republic)  
PISKULA M.K. (Olsztyn, Poland)  
PLOCKOVÁ M. (Prague, Czech Republic)  
PODZIMEK Š. (Pardubice, Czech Republic)  
PRASANNA R. (New Delhi, India)  
PUDIL F. (Prague, Czech Republic)  
RADA V. (Prague, Czech Republic)  
RAGAZZO-SANCHEZ J.A. (Tepic, Mexico)  
RAMADAN M.F. (Zagazig, Egypt)  
RAUCH P. (Prague, Czech Republic)  
RÉBLOVÁ Z. (Prague, Czech Republic)  
ROSSI M. (Milano, Italy)  
ROUBAL P. (Prague, Czech Republic)  
RYCHTERA M. (Prague, Czech Republic)  
SETTANNI L. (Palermo, Italy)
- SCHMIDT Š. (Bratislava, Slovakia)  
SIEKEL P. (Bratislava, Slovakia)  
SKARPEID H.-J. (Aas, Norway)  
SLADE L. (Morris Plains, USA)  
SÖZEN A. (Ankara, Turkey)  
SPIWOK V. (Prague, Czech Republic)  
STEINHAUSEROVÁ I. (Brno, Czech Republic)  
STRAKOVÁ E. (Brno, Czech Republic)  
STUPKA R. (Prague, Czech Republic)  
SYNYTSYA A. (Prague, Czech Republic)  
ŠAJBIDOR J. (Bratislava, Slovakia)  
ŠAŠEK J. (Prague, Czech Republic)  
ŠILHÁR S. (Bratislava, Slovakia)  
ŠIMKO P. (Bratislava, Slovakia)  
ŠMOGORVIČOVÁ D. (Bratislava, Slovakia)  
ŠTERN P. (Prague, Czech Republic)  
ŠVIRÁKOVÁ E. (Prague, Czech Republic)  
TENHAGEN B.-A. (Berlin, Germany)  
TORRIANI S. (Verona, Italy)  
TUCAK Z. (Osijek, Croatia)  
VALERO M. (Alicante, Spain)  
VALÍK L. (Bratislava, Slovakia)  
VÁVROVÁ M. (Brno, Czech Republic)  
VERNILLE A. (Foggia, Italy)  
VIDRIH R. (Ljubljana, Slovenia)  
VOLDŘICH M. (Prague, Czech Republic)  
VORLOVÁ L. (Brno, Czech Republic)  
VURAL A. (Diyarbakır, Turkey)  
VYTŘASOVÁ J. (Pardubice, Czech Republic)  
WANG J. (Hangzhou, China)  
WANG Z-Y. (Harbin, China)  
WILKINS W. (Saskatoon, Canada)  
WILLIAMS W.P. (Washington, USA)  
WILMAR Y.J. (Olsztyn, Poland)  
WŁASOW T. (Olsztyn, Poland)  
ZIELINSKA D. (Olsztyn, Poland)  
ŽITNÝ R. (Prague, Czech Republic)

## SUBJECTS INDEX

### A

- Accia gum (GA) ... 129
- acetic acid production ... 603
- acidity ... 322
- Actinidia deliciosa* ... 695
- adherence ... 457
- aerobic mesophilic bacteria ... 441
- airborne *Listeria* spp. ... 441
- allergen ... 190, 471
- allergenicity ... 508
- alliin ... 373
- allium ... 586
- Allium sativum* ... 373
- aluminium ions ... 322
- alveograph ... 35
- amino acid ... 480
- - free ... 79
- anthocyanin ... 171, 268
- antibiotic resistance ... 654
- antimicrobial activity ... 277, 575
- antimutagenic effect ... 548
- antioxidant activity ... 268, 575
- application ... 1
- apricot ... 161
- Aronia melanocarpata* L. ... 24
- Asaia* ... 457
- Aspergillus carbonarius* ... 291
- *niger* ... 610

### B

- bacterial culture ... 575
- baked goods ... 109
- baking applications ... 203
- baking quality ... 35
- barley ... 45, 354
- Basidiomycota ... 87
- basophil activation ... 190
- beaver ... 480
- beer ... 243
- beet root pomace extracts ... 575
- Beta vulgaris* ... 575
- betalains ... 575
- Bifidobacterium* spp. ... 51
- biocontrol ... 291
- bioconversion ... 610
- biodegradability ... 232
- biodegradable plastic ... 232
- bioluminescent ATP assay ... 382
- biotransformation ... 610
- blackberry wine ... 260

black cumin ... 145, 232

- blueberry ... 24
- bound 3-CPD ... 411, 448
- bread making quality ... 420
- broiler chicken ... 308
- bromide ... 634
- buckwheat flour ... 103

### C

- cadmium ... 624
- canned fish ... 498
- carbohydrate profile ... 515
- carcass ... 441
- carp ... 487
- carrot ... 528
- celery ... 190
- cereals ... 1
- chemical attributes ... 161
- composition ... 277
- chicken surimi ... 226
- chitin ... 616
- chloride ... 634
- 3-chloropropane-1,2-diol ... 411, 448
- 3-chloropropane-1,2-diol esters ... 411, 448
- cholesterol ... 219
- citral ... 610
- citronellol ... 610
- coeliac disease ... 103
- coffee brew ... 151
- cold pressing ... 74
- colour ... 79, 190, 268
- of pork ... 212
- profile ... 346
- commercial applications ... 616
- composition ... 487
- analysis ... 171
- confidence intervals ... 400
- contamination sources ... 391
- corn flour ... 520
- 3-CPD ... 411, 448
- cream ... 219
- Cronobacter* ... 391
- cruciferous vegetable ... 548

### D

- dehydration ... 586
- derivates ... 616
- dietary nucleotide ... 308
- DNA amplification ... 337
- degradation ... 337

dough ... 35  
 – machinability ... 520  
 DPPH ... 181  
 dry-cured meat products ... 463  
 drying ... 250  
 dry stress ... 391  
 DSC ... 15, 226  
 DTA ... 226

**E**

effective moisture diffusivity ... 528  
 egg product ... 569  
 – white ... 322  
 electron spin resonance ... 575  
 ELISA ... 45, 471  
 emulsifying properties ... 129  
 Enterobacteriaceae family ... 569  
*Enterococcus* spp. ... 654  
 ergosterol ... 430  
 eucalyptus essential oil ... 277  
*Eucalyptus globulus* Labill. ... 277  
 extruded blend ... 520

**F**

fatty acid ... 24, 145, 480, 487  
 – – composition ... 74  
 fermentation ... 51, 654  
 fermi equation ... 539  
 fibre ... 1  
 fish meat ... 487  
 foam characteristics ... 322  
 – stability ... 243  
 Folin-Ciocalteau method ... 181, 337  
 food-grade chitosan ... 616  
 food functional ... 1  
 – processing ... 337  
 – safety ... 641, 647  
 foodstuffs ... 634  
*Fragaria vesca* ... 181  
 FRAP ... 520  
 French fries ... 411  
 fruit quality ... 161  
 functionality ... 520  
*Fusarium* spp. ... 420

**G**

garlic ... 373  
 GC-TOF MS ... 498  
 genotypes ... 161  
 giant colony ... 400  
 glass transition ... 539  
 gliadin ... 45  
 $\beta$ -glucan ... 1  
 gluten-free bread ... 103  
 glutenin-to-gliadin ratio ... 117  
 GMO ... 337

goat's milk ... 24  
 graft reaction ... 129  
 granulation ... 346  
 grape ... 250  
 – must ... 603  
 grapevine ... 361  
 growth curve ... 400

**H**

halide ... 634  
 health benefit ... 1  
 heavy metal ... 260, 624  
 higher fungi ... 87  
 high temperature ... 117  
 histochemistry ... 471  
 HMF ... 328  
 honey ... 328  
 HPLC ... 181  
 HS-SPME/GC/MS ... 151  
 hydrocarbon ... 457  
 hydrophobicity ... 457  
 hydroxymethylfurfural ... 328  
 hygiene conditions ... 382

**I**

image analysis ... 232, 318, 400  
 immunohistochemistry ... 318, 471  
 immunochemistry ... 471  
 incubation ... 569  
 inhibition ... 291  
 initial freezing point ... 226  
 insect ... 616  
 interspecific variety ... 361  
 inulin ... 137  
 iodide ... 634  
 IS1245 ... 647  
 isoalliin ... 373  
 isoflavonoids ... 57  
 isolation ... 354  
 isothiocyanates ... 548

**J**

juice ... 190, 548

**K**

kiwifruit ... 595

**L**

lactic acid bacteria counts ... 24  
*Lactobacillus* ... 219  
 – *acidophilus* ... 51  
 – *animalis* subsp. *lactis* BB12 ... 51  
 Lamiaceae ... 285  
 LDA ... 260  
 lead ... 624

- legislation ... 624  
*Lentinula edodes* ... 79  
 lipid ... 480  
 liquid egg ... 569  
*Listeria monocytogenes* ... 31  
 LOD ... 541  
 LOQ ... 541  
 low pressure ion-exchange chromatography ... 634  
 LPIEC ... 634  
 lupin ... 203
- M**
- malt ... 243  
 maltodextrin ... 539  
 maltose ... 15  
 MATH ... 457  
 mathematical modelling ... 528  
 3-MCPD ... 448  
 meat ... 308, 480, 654  
 – processing plant ... 441  
 mechanism ... 219  
 menopause ... 57  
*Mentha pulegium* L. ... 285  
 menthol ... 285  
 menthone ... 285  
 mercury ... 624  
 metabolism ... 57, 373  
 methiin ... 373  
 microbial transformation ... 610  
 microbiological analyse ... 654  
 – stability ... 137  
 microelements ... 103  
 microorganism ... 569  
 microvalorigraph ... 109  
 microwave ... 151  
 – heating ... 328  
 milk ... 654  
 mineral ... 260  
 – elements ... 65  
 minimum culture medium ... 463  
 mitigation strategy ... 448  
 Mixolab ... 35, 420  
 monoterpenes compounds ... 285  
 mulberry pomace ... 268  
 multivariet analyse ... 260  
*Musca domestica* ... 616  
 mushroom colour ... 87  
 – pigment ... 87  
 must ... 603  
*Mycobacterium avium* subsp. *hominissuis* ... 647
- N**
- natrimum hexametaphosphate ... 322  
 natrimum pyrophosphate ... 322  
 natural product ... 171  
 neural network ... 250, 548
- O**
- Nigella* spp. ... 145  
 5'-nucleotide ... 79  
 nutritional value ... 203, 487
- P**
- oat ... 1, 354  
 ochratoxin A ... 291  
 oil-in-water emulsions ... 137  
 onion slices ... 586  
 optimum value ... 586  
 ORAC ... 181  
 organic acid ... 65, 361  
 oxidation ... 190  
 oxidative stability ... 74
- P**
- PAHs ... 498  
 pasta ... 346  
 pathogenic species ... 654  
 PCA ... 260, 346  
 pectin ... 65  
 phenolic compounds ... 575  
 physical attributes ... 161  
 phytic acid ... 299  
 pigment identification ... 171  
 – precursors ... 87  
 polycaprolactone ... 232  
 polydextrose ... 226  
 polymerase chain reaction ... 45  
 polypeptides ... 243  
 POPs ... 212, 498  
 pork meat ... 647  
 – quality ... 471  
 potato chips ... 411  
 – crisps ... 411  
 – products ... 411  
 powdered infant formula (PIF) ... 515  
 power ultrasound ... 508  
 preservation procedure ... 569  
 principal component analysis ... 430, 595  
 probiotic culture ... 654  
 processing contaminants ... 448  
 profiling ... 361  
 protein ... 103  
 – content ... 117  
 pseudocereals ... 109
- Q**
- quality ... 109  
 quantification ... 318  
 quince (*Cydonia oblonga* Mill.) ... 65
- R**
- radical scavengig activity ... 575  
 rapid screenings ... 382

raw cow's milk ... 641

– foods ... 654

ready-to-eat meals ... 382

residues ... 641

response surface methodology (RSM) ... 557

rheofermentometer ... 351

roasting ... 151

roe deer ... 624

roasting ... 151

*Robus fructicarus* ... 181

– *ideaus* ... 181

RP HPLC ... 641

rye ... 45

## S

*S*-alk(en)ylcysteine sulfoxides ... 373

seed oil ... 145

semi-industrial-continuous band dryer ... 528

sensory analysis ... 212

– evaluation ... 79

SEP ... 508

separation ... 268

shitake stipe ... 79

shrimp ... 508

skin tests ... 190, 557

slaughterhouse ... 441

Slovakia ... 31

sluggish fermentation ... 603

smoked pork sausages ... 647

solid-state fermentation (SSF) ... 557

solid substrate cultivation ... 400

solubility ... 129

solvent extraction ... 74

sorption ... 250

– isotherms ... 539

soya protein ... 137

soymilk ... 51

soy protein ... 318

– isolates ... 129

specific rotation ... 515

– volume ... 79

spectral method ... 346

spectrophotometry ... 654

spreads ... 137

B-starch ... 232

starch granule size ... 117

– properties ... 354

starter cultures ... 463

steamed bun ... 79

sterol ... 145

*Streptococcus thermophilus* ... 51

structure ... 520

stuck fermentation ... 603

sugar ... 361, 539

sulforaphane ... 548

sultana ... 539

support vector machine ... 595

## T

textural change ... 539

texture ... 137, 508

thermal transitions temperature ... 15, 226

thermodynamic ... 250

thin-layer drying ... 528

tissue concentrations ... 624

tocopherol ... 145

– content ... 74

traditional cheese ... 31

trehalose ... 15

trichothecenes ... 430

*Triticum aestivum* ... 430

*Triticum durum* ... 430

*Triticum spelta* ... 430

## U

unifloral honey ... 515

## V

vacuum drying ... 586

veterinaty drug ... 641

visible light detection ... 634

Vis/NIR hyperspectral imaging ... 595

vitamin C ... 65

*Vitis vinifera* L. ... 603

volatile compond ... 151, 463

– oil ... 285

## W

walnut oil ... 74

washed beef meat ... 15

waxberry (*Myrica rubra* Sieb. et Zucc.) ... 171

Western blot ... 190

WHC ... 212

wheat ... 45

– starch ... 232

– winter ... 420

wild boar ... 624

## X

xylanase ... 557

xylooligosaccharide ... 557

## Y

yeast ... 291, 463, 603

yeast assimilable nitrogen ... 603

yogourt ... 24

– culture ... 51

## Z

zoonosis ... 647

# CZECH ACADEMY OF AGRICULTURAL SCIENCES



Těšnov 17, 117 05 Prague 1, Czech Republic  
workplace: Slezská 7, 120 00 Prague 2, Czech Republic  
e-mail: redakce@cazv.cz  
Tel.: + 420 227 010 427, Fax: + 420 227 010 116  
Account No. 86634011/0100 KB  
IBAN CZ41 0100 0000 0000 8663 4011; SWIFT KOMBCZPPXXX

The Czech Academy of Agricultural Sciences published scientific journals dealing with the problems of agriculture, forestry and food sciences and technology. The periodicals are published in English.

Journal	Number of issues per year	Yearly subscription in USD
Plant, Soil and Environment	12	540
Czech Journal of Animal Science	12	660
Agricultural Economics (Zemědělská ekonomika)	12	540
Journal of Forest Science	12	480
Veterinární medicína (Veterinary Medicine – Czech)	12	720
Czech Journal of Food Sciences	6	420
Plant Protection Science	4	140
Czech Journal of Genetics and Plant Breeding	4	160
Horticultural Science	4	160
Research in Agricultural Engineering	4	140
Soil and Water Research	4	140

**Subscription to these journals be sent to the above-mentioned address.**