

CONTENTS

L01 BIOFLAVONOIDS AS MODULATORS IN CANCER CHEMOPREVENTION	13
<i>Tóthová D., Horváthová K., Ovesná Z., Vachálková A.</i>	13
L02 PROTECTIVE EFFECT OF FLAVONOIDS DETERMINED BY SCGE	14
<i>Horváthová K., Ovesná Z., Tóthová D., Vachálková A.</i>	14
L03 RESVERATROL AS PROTECTIVE AGENTS AGAINST OXIDATIVE STRESS IN YEAST POPULATION	15
<i>(1) Kolouchová I., (1) Melzoch K., (2) Macková M.</i>	15
L04 OLIGOSACCHARIDES IN MALT AND BEER	16
<i>Chmelík J., Čáslavský J.</i>	16
L05 REVIEW OF DETERMINATION OF THE FAT-SOLUBLE VITAMINS IN FOODS AND FEEDS	17
<i>Douša M.</i>	17
L06 COMPARISON OF HPLC METOD FOR DETERMINATION OF VITAMERS OF VITAMINS E IN ANIMAL FEEDS	19
<i>Hosmanová R. and Douša M.</i>	19
L07 PHYTOESTROGENS OF ALFALFA (<i>MEDICAGO SATIVA</i>) IN HUMAN AND VETERINARY NUTRITION	20
<i>Moravcová J.^a, Kleinová T.^{a,b}, Lapčík O.^a</i>	20
L08 REASON FOR A BAD HEALTH IN CR IS A NUTRITIONAL HYPERHOMOCYSTEINEMIA	21
<i>Erben K.</i>	21
L09 OBSERVATIONS ON EATING AND DRINKING REGIME OF ATHLETES AT GAMES OF THE XXVIIITH OLYMPIAD IN ATHENS 2004	23
<i>Větvíčka J.</i>	23
L10 THE CLASSIFICATION OF NUTRACEUTICS IN THE SPORT NUTRITION	24
<i>Mach I.</i>	24
L11 FOODSTUFFS FOR PARTICULAR NUTRITIONAL USES FOR SPORTSMEN FROM THE POINT OF VIEW OF THE CZECH LEGISLATIVE IN CONNECTION TO EU	26
<i>Michalová I.</i>	26

L12 ALCOHOL AND OXIDATIVE STRESS	28
<i>Zima T.</i>	<i>28</i>
L13 NEW TRENDS IN SUPELCO HPLC COLUMNS TECHNOLOGY	30
<i>Procházková D.</i>	<i>30</i>
L14 HEALTH ASPECTS OF VITAMINS	32
<i>Turek B.</i>	<i>32</i>
L15 ARE VITAMINS THE ONLY HEALTHY FACTOR IN BEER? 34	
<i>Kellner V., Čejka P., Čulík J., Horák T., Jurková M.</i>	<i>34</i>
L16 TOTAL HOMOCYSTEINE IN BLOOD -MARKER FOR DEFICIENCY OF VITAMINS CRITICAL FOR REMETHYLATION AND TRANSULFURATION	35
<i>Hynek J., Pejznochová H., Dubská L., Vodičková M., Maňoška V., Martiníková V.</i>	<i>35</i>
L17 VITAMINS IN LABORATORY DIAGNOSTICS – STATUS QUO AND PERSPECTIVE	37
<i>Vavrova J., Friedecký B.</i>	<i>37</i>
L18 MITOCHONDRIAL MEDICINE AND COENZYME Q10 (REVIEW).....	38
<i>Gvozdjakova A.</i>	<i>38</i>
L19 RELATIONS BETWEEN COENZYME Q10, α- TOCOPHEROL AND OXIDATIVE STRESS IN PATIENTS WITH CARDIOVASCULAR DISEASES AND DIABETES	42
<i>Kucharska J., Sumbalova Z., Bada V.¹, Gvozdjakova A.</i>	<i>42</i>
L20 THE EFFECT OF COENZYME Q10 IN PATIENTS WITH CHRONIC HEART FAILURE.....	44
<i>¹Mikla F, ²Kucharská J, ³Kozlíková K, ¹Murín J, ¹Povinec P, ¹Kasper J, ¹Papinčák J, ¹Mikeš P, ²Gvozdjácová A.</i>	<i>44</i>
L21 THE EFFECT OF COENZYME Q10 IN PATIENTS WITH NEPHROPATHIES.....	46
<i>Gazdikova K., *Gvozdjakova A., *Kucharska J., Spustova V., Dzurik R.</i>	<i>46</i>
L22 SUPPLEMENTATION OF COENZYME Q10 IN PATIENTS WITH CORTICO-DEPENDENT BRONCHIAL ASTHMA	48
<i>Gazdik F., *Gvozdjaková A., *Kucharská J., Gazdiková K., *Bartkovjaková M.</i>	<i>48</i>

L23 EFFECT OF Q10 IN CHILDREN WITH METABOLIC DISEASES	50
<i>Hlavatá A., *Gvozdjaková A., *Kucharská J., Kapellerová A.</i>	50
L24 ESR SPECTROSCOPY - THE METHOD FOR DETERMINATION OF POLYPHENOL ANTIOXIDANT ACTIVITY	52
<i>Čanadanović-Brunet J., Četković G., Đjilas S., Tumbas T.</i>	52
L25 CORRELATION BETWEEN ANTIOXIDANTS AND RISK OF DEVELOPMENT OF CVD.	53
<i>Hlúbik P., Strítecká H., Hlúbik J.</i>	53
L26 SELENIUM AND ASTHMA	55
<i>Gazdik F., Jahnová E., Horváthová M., Piják MR., Gazdiková K.</i>	55
L27 HOMOCYSTEÍN A JEHO VZŤAH K VITAMÍNOM DETERMINUJÚCICH VÝSKYT HYPERHOMOCYSTEINÉMIE U PACIENTOV S ICHS V TROCH RÔZNYCH OBLASTIACH SLOVENSKA	56
<i>Lietava J., Dukár A., Blažíček P.</i>	56
L28 CHROMSYSTEMS HPLC ANALYSIS OF VITAMINS AND OXIDATIVE STRESS PARAMETERS	57
<i>Erlenfeld G.</i>	57
L29 ACTIVE SKIN CARE: INNOVATIONS IN DELIVERY OF NOVEL COSMETIC ACTIVES	58
<i>Shore K., Krepelka J.</i>	58
L30 SIMULTANEOUS DETERMINATION OF HOMOCYSTEINE AND OTHER SULPHUR COMPOUNDS IN HUMAN PLASMA BY HPLC/ECD	59
<i>Žáková P. (1), Kandár R. (1), Ventura K. (2)</i>	59
L31 POSSIBILITIES OF MEASUREMENT OF MALONDIALDEHYDE, A PRODUCT OF LIPOPEROXIDATION	
60	
<i>Kandár R., Žáková P., Richter M.</i>	60
L32 COULOMETRIC DETECTION IN HPLC ANALYSIS OF ANTIOXIDANTS AND VITAMINS IN BEVERAGES	62
<i>Jandera P., Řehová L., Škeříková V., Hájek T., Kellner V., Čejka P., Čulík J., Horna A.</i>	62

L33 ADVANCES IN THE DEVELOPMENT AND CHARACTERIZATION OF HPLC COLUMNS, SUITABILITY FOR APPLICATIONS IN THE ANALYSIS OF ANTIOXIDANTS	63
<i>Jandera P.</i>	63
L34 SILICAGEL AND ORGANIC POLYMER MONOLITHIC COLUMNS FOR CAPILLARY HPLC	64
<i>Moravcová D., Urban J., Jandera P.</i>	64
L35 SYNTHESIS AND PROPERTIES OF MOLECULAR IMPRINTED STATIONARY PHASES FOR PRE-TREATMENT OF SAMPLES CONTAINING ANTIOXIDANTS	65
<i>Lasáková M.¹, Jandera P.¹, Theodoridis G.²</i>	65
L36 HIGH-THROUGHPUT SEPARATION AND PURIFICATION OF SYNTHETIC AND NATURAL PRODUCTS BY OPLC	66
<i>Amoyal W.</i>	66
L37 INFLUENCE OF FOOD SUPPLEMENTS AND MODIFICATION OF THE NUTRITION ON SPORT PERFORMANCE	67
<i>Plchová M.¹, Palata M.²</i>	67
L38 THE ROLE OF ESSENTIAL TRACE ELEMENTS IN RED-OX HOMEOSTASIS AND OXIDATIVE STRESS	68
<i>Kvičala J.</i>	68
L39 CANNABIS STILL UNDER DEVELOPMENT	70
<i>Zapletal J.</i>	70
L40 ON-LINE HPLC DETERMINATION OF CDT: A SPECIFIC AND EASY TO USE METHOD FOR IDENTIFICATION OF ALCOHOL ABUSE	71
<i>Knirsch K. M., Dirsch N.</i>	71
L41 SIMULTANEOUS DETERMINATION OF O-CRESOL AND PHENOL IN URINE WITH A NEWLY DEVELOPED READY TO USE HPLC KIT	72
<i>Schaffer A. W.</i>	72
L42 VITAMIN STATUS OF THE PREGNANT IN 3RD WORLD	74
<i>Hannak D.</i>	74
L43 REFERENCE MATERIALS (RM, CRM) FOR QUALITY ASSURANCE IN THERAPEUTIC DRUG MONITORING AND CLINICAL CHEMISTRY	75

<i>Plank S.</i>	75
L44 THE VEGETABLE FATS OF 3RD MILLENNIUM	76
<i>Brát J.</i>	76
L45 FOLACIN IN INFANT FOOD	77
<i>Uherová R.</i>	77
L46 EFFECT OF VITAMIN E ON GLUTATHIONE AND GLUTATHION-DEPENDENT ENZYMES	78
<i>Malínská H., Oliyarnyk O., Kazdová L.</i>	78
L47 RADICAL SCAVENGING PROPERTIES OF TOKAJ WINES, NON-ALCOHOLIC BEER AND DARK BEER	80
<i>Staško A.¹, Polovka M.¹, Brezová V.¹, Šmogrovičová D.², Selecký R.² and Malík F.²</i>	80
L48 HEMICAL BEHAVIOUR AND BIOLOGICAL ACTIVITIES OF CHELERYTHRINE AND SANGUINARINE	82
<i>Kosina P.</i>	82
L49 VALUATION OF DIETARY HABITS IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION	84
<i>Mužáková V.¹, Roušar T.¹, Vojtíšek V.², Grofová Z.³, Skalický J.⁴</i>	84
L50 GLUTATHIONE IN THE PATHOGENESIS OF ATHEROSCLEROSIS IN INSULIN RESISTANCE SYNDROME	86
<i>Oliyarnyk O., Malínská H., Kazdová L.</i>	86
L51 CARBAMATIC CHOLINESTERASIS INHIBITORS IN PHARMACOTHERAPY OF ALZHEIMER'S DISEASE	88
<i>Čegan A.¹, Kandár R.¹, Mužáková V.¹, Žáková P.¹, Štěpánková Š.², Zdražilová P.³</i>	88
L52 NUTRIENT-DEPENDENT REGULATION OF GENE EXPRESSION BY SATURATED AND UNSATURATED FATTY ACIDS	90
<i>Schleicher E., Macchicao F., Hirschfeld-Kroll O. and Weigert C.</i>	90
L53 THE ROLE OF VITAMIN C IN PREVENTION OF DIABETIC ENDOTHELIAL DYSFUNCTION	92
<i>Kazdová L., Malínská H., Oliyarnyk O., Hubová. M., Marková I.</i>	92
L54 L-CARNITINE AND ITS ROLE IN HEALTH AND DISEASE 94	
<i>Cibulka R., Racek J.</i>	94

L55 COMPARISON OF OXIDATIVE DNA DAMAGE AND ANTIOXIDANT PROTECTION MARKERS IN ELDERLY AND YOUNG PEOPLE. PRELIMINARY RESULTS.....	95
<i>Volkovová K., Staruchová M., Dušinská M.</i>	<i>95</i>
L56 RESVERATROL	97
<i>Šmidrkal J.^a, Filip V.^a, Prekop J.^a, Kolouchová I.^b, Melzoch K.^b, Harmatha J.^c</i>	<i>97</i>
L57 SCIENTIFIC ISSUES IN THE ASSESSMENT AND MANAGEMENT OF RISK TO DETERMINE UPPER SAFE LEVELS FOR THE DAILY CONSUMPTION OF NUTRITIONAL SUPPLEMENTS CONTAINING VITAMINS, MINERALS AND TRACE ELEMENTS	98
<i>Shrimpton D. H.</i>	<i>98</i>
L58 OXIDATIVE STRESS AND ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD)	100
<i>^aChovanová Z., ^aHauserová M., ^bBlažíček P., ^cTřebatická J., ^cŠkodáček I., ^cŠuba J., ^aRohdewald P., ^aĎuračková Z.</i>	<i>100</i>
L59 PARAOXONASE AND OXIDATIVE STRESS.....	102
<i>Sumegová, K.¹, Blažíček, P.², Fuhrman, B.³, Ďuračková, Z.¹</i>	<i>102</i>
L60 8-OXO-DEOXYGUANOSINE IN SERUM - A MARKER OF OXIDATIVE STRESS	103
<i>Konvalina I., Chovanová Z., Muchová J., Sivoňová M. and Ďuračková Z.</i>	<i>103</i>
L61 THE EFFECT OF NATURAL POLYPHENOLS (EXTRACT FROM PINUS PINASTER (PYCNOGENOL®) AND GINKGO BILOBA (EGB 761)) ON THE OXIDATIVE STRESS AND ERECTILE FUNCTION IN PATIENTS SUFFERING FROM ERECTILE DYSFUNCTION	105
<i>Muchová J.^A, Chovanová Z.^A, Hauserová M.^A, Liptáková A.^A, Vužňáková M.^A, Třebatický B.^B, Breza J.^B and Ďuračková Z.^A</i>	<i>105</i>
L62 POLYPHENOLS – MYSTERY AND REALITY	107
<i>Ďuračková Z.</i>	<i>107</i>
L63 VITAMIN C LEVELS ARE AFFECTED BY POLYMORPHISMS IN GENES FOR BIOTRANSFORMING ENZYMES	108
<i>Horská A, Mištanová C., Volkovová K, Staruchová M, Wsóllová L, Dušinská M.</i>	<i>108</i>

L64 WALMARK – THE DIVISION OF PHARMACEUTICALS 110

L65 USE OF COULOMETRIC ARRAY HPLC IN METABONOMICS..... 112

Goodall E...... 112

L66 RAPID ON-LINE ELECTROCHEMICAL SYNTHESIS OF PHARMACEUTICAL DEGRADANTS AND METABOLITES FOR PROFILING, IDENTIFICATION AND QUANTITATION..... 113

Goodall E...... 113

L67 VÝVOJ OD HPLC/MS K UPLC/MS 114

Exner M...... 114

L68 ADVANCED TOOLS AND APPLICATIONS FOR FOOD, CLINICAL AND TOXICOLOGICAL ANALYSIS WITH LC/MS/MS 115

Merta A...... 115

L69 MOŽNOSTI STANOVENIA HOMOCYSTEÍNU V KLINICKEJ PRAXI 116

Blažiček P.¹, Kudláčková M.², Šebeková K.²..... 116

L70 MINERAL WATER KORUNNÍ AND OPTIMINERAL..... 118

P01 A-LIPOIC ACID – THE NATURAL ANTIOXIDANT..... 120

Vachálková A., Tóthová D., Horváthová K., Ovesná Z...... 120

P02 ISOPRENOID AND POLYPHENOLIC COMPOUNDS FROM LEUZEA CARTHAMOIDES, SUITABLE REMEDIES FOR A HIGH QUALITY AND SAFE ADDITIVE NUTRITION 121

Harmatha J., Vokáč K., Grüner K., Pavlík M., Laudová V...... 121

P03 POSSIBILITY OF NATURAL FOLATE INCREASE IN FERMENTED MILK PRODUCTS 123

Holasova M.¹, Fiedlerova V.¹, Roubal P.², Pechacova M.²..... 123

P04 VITAMINS AND CARDIOVASCULAR DISEASES 125

Střítecká H.^a, Hlúbik P.^a, Pavlík V.^a, Bis J.^b..... 125

P05 VITAMIN LEVELS IN SELECTED POPULATION IN CZECH REPUBLIC 127

Pavlík V., Střítecká H., Hlúbik P...... 127

P06 ANTIOXIDATIVE AND ANTIMICROBIAL ACTIVITIES OF DIFFERENT *EQUISETUM ARVENSE* L. EXTRACTS 129

<i>Četković G., Čanadanović-Brunet J., Djilas S., Markov S., Cvetković D., Tumbas V.</i>	129
--	-----

P07 VITAMINS CONTENT IN MINOR CEREALS AND PSEUDOCEREALS 130

<i>Gabrovská D.¹, Fiedlerová V.¹, Holasová M.¹, Mašková E.¹, Paulíčková I.¹, Rysová J.¹, Winterová R.¹, Michalová A.² ...</i>	130
---	-----

P08 OPTIMALIZATION OF METHOD FOR THE DETERMINATION OF UBIQUINOL-10 AND UBIQUINONE-10 IN HUMAN PLASMA 132

<i>Žáková P., Kulichová B., Kandár R., Ventura K.</i>	132
---	-----

P09 NUTRITIONAL AND MICROBIAL CHANGES IN COMMON BUCKWHEAT SEED DURING GERMINATION 133

<i>Paulíčková I., Rysová J., Fiedlerová V., Vavreinová S.</i>	133
---	-----

P10 DETERMINATION OF POLYPHENOLS AND OTHER ANTIOXIDANTS IN BEER AND BREWING MATERIALS..... 135

<i>Prýma J.¹, Havlová P.¹, Gadas D.², Ehrenbergerová J.³</i>	135
--	-----

P11 COMPARISON OF THE DISTILLATION METHODS USED IN THE CZECH REPUBLIC FOR ESSENTIAL OILS CONTENT DETERMINATION IN SPICES..... 136

<i>Růžičková G.</i>	136
---------------------------	-----

P12 OPTIMIZATION OF THE CONDITIONS FOR HPLC ANALYSIS OF NATURAL PHENOLIC COMPOUNDS USING RP-HPLC WITH COULARRAY DETECTOR..... 138

<i>Škeříková V.¹, Jandera P.¹, Hájek T.¹, Kellner V.²</i>	138
---	-----

P13 RP-HPLC ANALYSIS OF NATURAL PHENOLIC COMPOUNDS IN WINE USING COULARRAY DETECTOR.... 140

<i>Hájek T., Jandera P., Škeříková V.</i>	140
---	-----

P14 COMPARISON OF SAPONINS AND FLAVONOIDS IN VARIOUS AFRICAN SPECIES OF DESMODIUM ADSCENDENS FROM DIFFERENT COUNTRIES: ANALYSIS AND OPLC PURIFICATION 141

<i>Galand N.¹, Ragot J.¹, Dollet J.¹, Pothier J.¹, Amoyal W.², Bryson N.², Manach M.², Korb H.³</i>	141
---	-----

P15 OPTIMUM PERFORMANCE LAMINAR CHROMATOGRAPHY IN CHEMICAL CATALYSIS 142

<i>Amoyal W.¹, Bryson N.¹, Manach M.¹, Korb H.², Brohan E.³, Descarpentry M.³, Lavastre O.⁴</i>	142
--	-----

P16 OPTIMUM PERFORMANCE LAMINAR CHROMATOGRAPHY FOR THE IDENTIFICATION AND SEPARATION OF SUBSTANCES IN BIOLOGICAL FLUIDS....	143
<i>Amoyal W.¹, Bryson N.¹, Manach M.¹, Korb H.²</i>	143
P17 ANALYTICAL STUDY OF ATRACTYLODES ESSENTIAL OILS BY TLC AND OPLC	144
<i>Pothier J.¹, Dollet J.¹, Montigny F.¹, Galand N.¹, Amoyal W.², Manach M.², Bryson N.², Korb H.³</i>	144
P18 HIGH-THROUGHPUT SEPARATION AND PURIFICATION OF SYNTHETIC AND NATURAL PRODUCTS BY OPLC.....	145
<i>Amoyal W.¹, Bryson N.¹, Papillard D.¹, Manach M.¹, Korb H.³, Mincsovcics E.⁴</i>	145
P19 A NEW BIOANALYTICAL TOOL FOR METABOLITE ANALYSIS AND PURIFICATION: OPLC COMBINED WITH OFF-LINE AND ON-LINE RADIOACTIVITY DETECTION.....	146
<i>Klebovich I.¹, Amoyal W.², Bryson N.², Manach M.², Korb H.³, Mincsovcics E.⁴</i>	146
P20 PLANT DRUG ANALYSIS BY OPTIMUM PERFORMANCE LAMINAR CHROMATOGRAPHY	147
<i>Galand N.¹, Pothier J.¹, Dollet J.¹, Amoyal W.², Manach M.², Korb H.³</i>	147
P21 HPLC ANALYSIS OF NATURAL ANTIOXIDANTS WITH ELECTROCHEMICAL DETECTION – OPTIMISATION OF DETECTION CONDITIONS AND INVESTIGATION OF THE PRODUCTS OF COULOCEMIC OXIDATION USING MS.....	148
<i>Řehová L.¹, Jandera P.²</i>	148
P22 THE FLUORINE CONTENT IN SELECTED DRINKS AND URINE OF INHABITANTS OF JABLONEC NAD NISOU REGION	150
<i>Hoskocová P., Vosátková M., Čeřovská J., Kulhánek M.</i>	150
P23 EFFECT OF GENOTYPES AND YEARS ON THE CONTENT OF NON-STARCH POLYSACCHARIDES IN A BARLEY GRAIN	152
<i>Ehrenbergerová J.¹, Havlová P.², Hasanová S.¹</i>	152
P24 CHANGES IN CONTENTS OF SELECTED FLAVONOIDS IN RELATIONSHIP TO LEGUME CULTIVAR	153
<i>Vollmannová A., Tóth T., Tomáš J., Timoracká M., Kobida L.</i>	153

P25 REACTIVE OXYGEN SPECIES PRODUCED UPON IRRADIATION OF SUNSCREENS CONTAINING TITANIUM DIOXIDE (EPR STUDY)	155
<i>Brezová V., Gabčová S., Dvoranová D., Staško A.</i>	155
P26 (1→3)-β-D-GLUCAN AS RADICAL SCAVENGER AND ITS ACTIVITY IN THE ADJUVANT ARTHRITIS	157
<i>Staško A.¹, Kogan G.², Polovka M.¹, Bauerová K.², Šoltes L.³, Brezová V.¹, Navarová J.², Mihalová D.²</i>	157
P27 ANALYSIS OF PLANT MATERIALS WITH DIRECTION TO DETERMINATION OF ISOFLAVONOID	159
<i>Bajer T., Adam M., Mikulčíková P., Eisner A., Ventura K.</i>	159
P28 HPLC-ECD METHOD FOR THE DETERMINATION OF THE BENZOPHENANTHRIDINE ALKALOIDS IN BIOLOGICAL MATRICES	160
<i>Bochořáková H., Paulová H., Musil P., Slaninová I., Táborská E.</i>	160
P29 LEVELS OF PHYTOESTROGENS IN SOYA FOODSTUFFS AND SPECIAL FOOD SUPPLEMENTS	162
<i>Lojza J., Schulzová V. and Hajšlová J.</i>	162
P30 A SIMULTANEOUS DETERMINATION OF IMPORTANT WINE COMPOUNDS BY ION-CHROMATOGRAPHY AND CAPILLARY ELECTROPHORESIS.	163
<i>Štěrbová D., Vlček J., Kubáň V., Kovář A.</i>	163
P31 FACTORS INFLUENCING CONTENT OF VITAMIN E AND ITS ISOMERS IN GRAIN OF SPRING BARLEY	165
<i>Belcrediová N.¹, Ehrenbergerová J.¹, Prýma J.², Šerhantová V.¹</i>	165
P32 DETERMINATION OF ROSMARINIC ACID AND ITS MAJOR METABOLITES USING HPLC WITH DUAL-CHANNEL COULOMETRIC DETECTION	167
<i>Jirovský D., Myslinová M., Horáková D.</i>	167
P33 INTERACTION OF PLANT POLYPHENOLS WITH IRON IONS	168
<i>Chvátalová K. and Slanina J.</i>	168
P34 DETERMINATION OF VITAMINS A, C AND E IN SERUM/PLASMA	169
<i>Humplíková S., Minář J., Strbáčková J., Kozlíková J., Radina M., Kučerová M.</i>	169

P35 POLYPHENOLS IN GREEN TEA	170
<i>Košulič P., Pokorný J., Panovská Z.....</i>	<i>170</i>
P36 ANALYSIS OF SELENIUM, MALONDIALDEHYDE AND PLASMA THIOLS IN A POPULATION SAMPLE FROM THE JINDŘICHŮV HRADEC AREA	171
<i>Králíková M.* , Tallová J.* , Kvičala J.⁺ , Hill M.⁺ , J.*</i>	<i>Tomandl 171</i>
P37 EFFECT OF NUTRITION ON OXIDATIVE DAMAGE OF BIOMOLECULES	173
<i>Staruchová M.¹ , Volkovová K.¹ , Wsóllová L.¹ , Lajdová A.³ , Collins A.R.² , Kadrabová J.¹ , Dušinská M.¹</i>	<i>173</i>
P38 ACTIVITIES OF CZECH AGRICULTURE AND FOOD INSPECTION AUTHORITY ON THE FIELD OF VITAMIN ANALYSIS	175
<i>Vejdová M., Kubík M., Cuhra P.....</i>	<i>175</i>
P39 EVALUATION OF THE OXIDATIVE STRESS IN DIABETIC AND HYPERCHOLESTEROLEMIC SENIOR PATIENTS	176
<i>Roušar T.¹ , Mužáková V.¹ , Kandár R.¹ , Vojtišek P.²</i>	<i>176</i>
P40 DO DERIVATIVES OF AMINO GUANIDINE INFLUENCE THE LOW MOLECULAR WEIGHT ANTIOXIDANTS IN STREPTOZOTOCIN-INDUCED DIABETIC RATS?	178
<i>Liptáková A.¹ , Korytár P.¹ , Uličná O.² , Čársky J.¹ , Ďuračková Z.¹</i>	<i>178</i>
P41 DETERMINATION OF THIOL COMPOUNDS USING HIGH- PERFORMANCE LIQUID CHROMATOGRAPHY WITH ELECTROCHEMICAL DETECTION	179
<i>Potěšil D.^{1,2} , Petrlová J.² , Zehnálek J.² , Adam V.^{1,2} , Zelená J.² , Klejdus B.² , Kizek R.²</i>	<i>179</i>
P42 RAPID ISOFLAVONE DETERMINATION IN SOY PLANTS (GLYCINE MAX) BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED WITH DIODE-ARRAY DETECTOR.....	181
<i>Mikelová R.¹ , Klejdus B.¹ , Petrlová J.¹ , Potěšil D.^{1,2} , Adam V.^{1,2} , Stiborová M.³ , Hodek P.³ , Kizek R.¹</i>	<i>181</i>
P43 ANTIOXIDANT CAPACITY OF HONEYS PRODUCED IN THE CZECH REPUBLIC	183
<i>Kalábová K., Vorlová L.</i>	<i>183</i>

P44 CONTENTS OF ISOXANTHOTHUMOL AND OTHER PRENYLFLAVONOIDS IN CZECH AND FOREIGN BEERS.....	184
<i>Krofta K.¹, Poustka J.², Nováková K.², Hajšlová J².....</i>	<i>184</i>
P45 ANALYSIS OF HONEY - DETERMINATION OF ORGANIC ACIDS.....	185
<i>Táborská S., Královský J., Sedláčková V.....</i>	<i>185</i>
P46 MONITORING NUTRITIONAL CHANGES OF AMARANTH BIOMASS IN DIFFERENT STAGE OF GROWTH.....	186
<i>Jelínek.M.....</i>	<i>186</i>
P47 VITAMINS AND ANTIOXIDANTS IN AMARANTH.....	187
<i>Jelínek.M.....</i>	<i>187</i>