

KEY-NOTE LECTURES

<u>Y. Ren, Y. Ai*</u>	Gelation mechanisms of starches varying in molecular structures under different processing conditions	5
<u>G. Lewandowicz*, P. L. Kowalczewski, A. Olejnik</u>	Potato juice – a raw material with unique potential for the food industry and medicine	10
<u>J. Maarten De Bruijn</u>	The role of polysaccharides in sugar beet processing	16

ORAL PRESENTATIONS

<u>Š. Králová, R. Bleha*, T. Babayeva, J. Čopíková, T. Brányik, A. Sinica</u>	Polysaccharides of microalgae <i>Chlorella vulgaris</i> G10: structural analysis	21
<u>B. Hajdari, S. Henke, S. Gillarová, T. Svoboda, V. Pour, Z. Bubník</u>	Pectin depolymerization by UV/TiO ₂ under different conditions	26
<u>M. Havrlentová*, V. Gregusová, P. Hozlár, J. Gubiš</u>	What is the potential for (1-3)(1-4)-β-D-glucans to be beneficial in a plant source?	31
<u>J. Lewandowicz*, J. Le Thanh-Blicharz</u>	The effect of chemical modification of starch on rheological properties and texture of tomato ketchup	33
<u>T. Svoboda, A. Svoboda, S. Henke, S. Gillarová, D. Růžická, P. Krčová</u>	Development of software tool for estimation of chromatography equilibrium dispersive model parameters for separation of saccharides and mannitol	36
<u>F. Zavřel, R. Bleha, G. Ruphuy, F. Štěpánek*</u>	Optimization of the yeast glucan particle preparation process	42

POSTERS

<u>T. Babayeva*, A. Sinica, F. Kvasnička, R. Bleha, K. Demnerová</u>	Characteristics of industrial poultry waste as a source of glycosaminoglycans	48
<u>N. Dolejšová, R. Bleha, A. Sinica, J. Čopíková</u>	Reformulation of fondant with <i>Hericium erinaceus</i> water extract	52
<u>V. Dvořáček*, L. Jurkaninová, I. Hartman, M. Jágr, A. Kotrbová Kozak, I. Capouchová</u>	Rheological parameters of oat flour and bran with an emphasis on the properties of the starch complex before and after controlled malting	57
<u>S. Gillarová*, S. Henke, D. Růžická, T. Svoboda, Z. Bubník</u>	Measurements and simulation of chromatography of mannitol and other saccharides solution	62
<u>E. Górska*, A. Mazurek, I. Pawlaczyk-Graja</u>	Natural deep eutectic solvents in pectins extraction from black currant pomace	68
<u>D. Harkavchenko, I. Shakirzianova, A. Macůrková, J. Štětina, L. Čurda*</u>	Preparation of galactooligosaccharides from whey using novel commercially available β-galactosidases	72
<u>Ch. Jaffali*, R. Bleha, A. Khadri, S. Aschi-Smiti, P. Klouček, I. Jablonský, A. Sinica</u>	Mid-infrared spectroscopic evaluation of cultivated oyster mushroom <i>Pleurotus eryngii</i> as the source of medicinal polysaccharides	77
<u>O. Jirsa, P. Martinek, P. Podloucká, M. Blandino, I. Sedláčková, I. Polišenská</u>	The influence of nitrogen fertilization on the content of starch, protein and gluten in perspective genotypes of coloured wheat	82
<u>R. Köpük*, T. M. Ferreira Maia De Andrade E Castro, M. Slukova, M. J. Monteiro</u>	Development and evaluation of flours from cereal and legume flours for biscuits making	85

<u>J. Le Thanh-Blicharz*</u> , M. Stangierski, Z. Małyszczek, J. Lewandowicz, H. M. Baranowska	The effect of botanical origin of starch on mechanical properties and water dynamics in solvent casted films	89
<u>A. Mazurek*</u> , W. Różycka, E. Górská, I. Pawlaczyk-Graja	Polysaccharides from flaxseed – isolation by natural deep eutectic solvents	93
<u>P. Podloucká*</u> , K. Vaculová, I. Polišínská	Content of β -glucans and polyphenols in six barley varieties intended for human nutrition	97
<u>M. N. Rapin*</u> , L. Murray, I. H. Sadler, J. H. Bothwell, S. C. Fry	Chemical structure and cellulose affinity of seaweed cell-wall polysaccharides	101
R. Bleha, T. Babayeva, J. Čopíková, M. Jozífek, P. Klouček, I. Jablonský, A. Sinica*	Isolation and characterisation of polysaccharides from fruiting bodies of medicinal fungus <i>Hericium erinaceus</i> strain KZ-120	106
<u>J. Sita*</u> , M. Čepa, V. Velebný, F. Ondreáš	Oleoyl-hyaluronan self-assembly and its interactions with bovine serum albumin	110
<u>M. Sluková*</u> , Š. Horáčková, P. Skřivan, I. Švec, D. Koval	Characterization of buckwheat sourdoughs and evaluation of their functionality	114
<u>I. Švec*</u> , P. Smrčková, L. Marešová, M. Sluková	Identification of polysaccharides and proteins in the RVA profile " <i>Wheat flour ethanol method</i> "	118
R. Arabadzhieva, I. Ivanov, <u>D. Vassilev*</u> , N. Petkova, R. Mihov, I. Petrova	Microwave-assisted synthesis of lactose octaacetates and their application in a cosmetic hand gel	124
<u>K. Venugopal</u> , E. Bernaś	The influence of pretreatment and lactic acid fermentation on dietary fibre and beta-glucans in <i>Neoboletus erythropus</i> mushroom	129