

First International Conference on Bio-antioxidants (ICBA2017) 25 – 29 June 2017, Sofia, Bulgaria



First International Conference on Bio-antioxidants:



“Natural Bio-antioxidants – as a base for new synthetic drugs and food additives/supplements”

Sofia, Bulgaria, 25-29 June 2017

Final Scientific Program

Sunday, 25 June 2017

**Registration and information
Company for International
Meetings**

Bulgarian Academy of Sciences –Presidium

12.00-17.00

Welcome and Opening Ceremony

Prof. Veselin Brezin, Bulgarian National Scientific Fund, Ministry of Education, Bulgaria	Welcome address	16.00-16.10
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Mrs. Boryana Kadmonova Evrika Foundation, Bulgaria	Welcome address	16.10-16.20
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Prof. Svetlana Simova Director IOCCP-BAS, Bulgaria	Welcome address	16.20-16.30
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Prof. Vessela Kancheva Chair of organizing committee, IOCCP - BAS, Bulgaria	Opening Plenary Lecture Oxidative Stress, Lipid Oxidation and Bio- antioxidants	16.30-17.15
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Students from the National School of Music “Lyubomir Pipkov“	Welcome to Bulgaria	17.15-17.30
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Welcome Reception

**Hotel of Bulgarian Academy of Sciences
Dom na uchenia – BAN
50 Shipchenski prohod Str., 1113 Sofia,
Bulgaria**

18.30-20.30

First International Conference on Bio-antioxidants (ICBA2017) 25 – 29 June 2017, Sofia, Bulgaria

Monday, 26.06.2017

**Registration and information Bulgarian Academy of Sciences –Presidium
Company for International Meetings 09.00-12.00**

Topics A: Oxidative Stress and Human Health; Bulgarian Academy of Sciences			
Moderators: Prof. P. A. Serra, Prof. V. Gadjeva, Prof. L. Saso			
PL 1	Prof. Pier Andrea Serra, Italy	The impact of free radicals and bio-antioxidants on neurodegenerative diseases	09.30-10.15
Coffee break			10.15 -10.45
KL 1	Prof. Vesselina Gadjeva, Bulgaria	Oxidative stress and related diseases	10.45-11.15
KL2	Prof. Luciano Saso, Italy	Modulation of oxidative stress as a pharmacological strategy	11.15-11.45
OP1	Prof. Georgeta S. Bocheva, Bulgaria	Lipid peroxidation and radical scavenging activity in hypothyroid rat skin with and without SSUV exposure	11.45-12.00
Break			12.00 -13.00

Monday, 26.06.2017

Topics B: Natural Bio-antioxidants, Bulgarian Academy of Sciences			
Moderators: Prof. V. Bankova, Prof. C. Diaz, Prof. V. Kancheva			
PL 2	Corr. Memb. Prof. Vassya Bankova, Bulgaria	Propolis: a rich source of natural antioxidants	13.00-13.45
KL3	Dr. Simonetta Bullitta, Italy	Natural antioxidants from herbs and shrubs of Mediterranean grasslands	13.45-14.15
KL4	Prof. Carlos Bravo-Díaz, Spain	Interfacial concentrations of antioxidants in oil-in-water emulsions and cut-off effects: role of the HLB of the antioxidant on their efficiencies	14.15-14.45
OP2	Dr. Vessela Vitcheva, Bulgaria	In vitro/in vivo evaluation of the antioxidant potential of Dicafeoylquinic acid isolated from <i>Geigeria alata</i>	14.45-15.00
Coffee break			15.00 -15.30

Topics C: Synthetic analogues of natural bio-antioxidants Moderators: Prof. C. Bravo-Diaz, Prof. G. Delogu, Prof. V. Dimitrov			
PL3	Dr. Giovanna Delogu, Italy	Design and synthesis of natural-like phenols and hydroxylated biphenyls to be applied in biomedical and agricultural fields.	15.30-16.15
KL5	Prof. Vladimir Dimitrov, Bulgaria	On the design of synthetic analogues of natural products	16.15-16.45
OP3	Prof. Alessandra Ricelli, Italy	Role of some neosynthesized styryl heterocycles in ROS and mycotoxin control	16.45-17.00
OP4	Lozan Todorov, V.-M. B. Mladenova, <u>Maria Valcheva -Traykova</u> , I. Kostova, Bulgaria	Effects of orotic and 5-amino orotic acids on the free radicals accumulation in rat blood serum.	17.00-17.15
OP5	<u>Lozan Todorov</u> , B. Chifchiev, M. Valcheva-Traykova, I. Kostova, Bulgaria	Radical scavenging activity toward 2,2-diphenyl-1-hydrazil and hydroxyl radicals of 5-aminoorotic acid and its Ga(III) complex	17.15-17.30
Poster Session I			17.30 -18.30
Tuesday, 27.06.17			

Topics D: Homogeneous and heterogeneous lipid oxidation; Bulgarian Academy of Sciences Moderators: Prof. G. Litwinienko, Prof. O. Kasaikina, Prof. S. Aubourg			
PL4	Prof. Grzegorz Litwinienko, Poland	The antioxidant activity of catecholamines in dispersed lipid systems	09.30-10.15
Coffee break			10.15 - 10.45
KL6	Prof. Olga Kasaikina, Russia	Mutual influence of lipids-antioxidants-surfactants In microheterogeneous systems	10.45-11.15
KL7	Prof. Santiago Aubourg, Spain	Preservative properties of lipophilic extracts of a by-product resulting from jumbo squid (<i>Dosidicus gigas</i>) commercialization	11.15-11.45
OP6	Prof. Carlos Bravo-Diaz, Spain	Effect of emulsifier HLB and emulsifiers in corn oil emulsions	11.45-12.00
Break			12.00 - 13.00

Tuesday, 27.06.2017

Topics D: Food Analysis, food additives and food supplements; Bulgarian Academy of Sciences
Moderators: Prof. R. Amarowicz, Prof. F. Ribarova, Prof. P. Denev

PL5	Prof. Ryszard Amarowicz, Poland	Antioxidant activity of natural compounds in food model systems	13.00-13.45
KL8	Prof. Fanny Ribarova, Bulgaria	Essentiality of dietary non-essential amino acids for antioxidative defense	13.45-14.15
KL9	Acad. Atanas Atanasov, Bulgaria	Naturally derived products as nutraceuticals for human health	14.15-14.45
OP7	Prof. Petko Denev, Bulgaria	Antioxidant Activity of Black Chokeberry (<i>Aronia melanocarpa</i>) Polyphenols: <i>in vitro</i> and <i>in vivo</i> Evidences and Possible Mechanisms of Action.	14.45-15.00
Coffee break			15.00 -15.30

Tuesday, 27.06.2017

Joint Topics, Bulgarian Academy of Sciences
Moderators: Prof. G. Litwinienko, Prof. C.- B. Diaz, Prof. I. Pajeva

OP8	<u>Petko Aloy</u> , I. Tsakovska, I. Pajeva, Bulgaria	Hybrid classification / regression approach to QSPR modelling of polyphenol antioxidant activity in assays with a stoichiometric endpoint	15.30 -15.45
OP9	<u>Magdalena Kondeva-Burdina</u> , A. Kasabova, St. Balkanski, V. Tzankova, I. Kostova, Bulgaria	Study on the <i>in vitro</i> activity of Praseodymium complex of 5-aminoorotic acid	15.45 -16.00
OP10	<u>Silvia Tsanova-Savova</u> , S. Velikov, V. Petkov, Bulgaria	The Flavonoids Composition of Bulgarian Foods – Comparison with USDA Database	16.00 -16.15
OP11	<u>Lily Andonova</u> , D. Zheleva-Dimitrova, M. Georgieva, Al. Zlatkov, Bulgaria	Evaluation of <i>in vitro</i> antioxidant activity of some newly synthesized methylxanthines with arylpiperazine moiety.	16.15-16.30
OP12	<u>Rumyana Simeonova</u> , V. Vitcheva, M. Kondeva-Burdina, A. Shkondrov, I. Krasteva, Bulgaria	Evaluation of the antioxidant potential of defatted extract from <i>Astragalus spruneri</i> (Fabaceae) in spontaneously hypertensive rats (SHRs)	16.30-16.45

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OP13	<u>Maria Traykova</u> , G. Bocheva, S. Razmirov, T. Traykov, Bulgaria	Antioxidant properties of green synthesized silver nanoparticles and their effect on moderate local heat burn model.	16.45-17.00
OP14	Prof. Irena Kostova, Bulgaria	Antioxidant activity of lanthanide(III) complexes with biologically active ligands	17.00-17.15

Optional free Sofia walking tour 18:00 – 19:30

Conference Dinner 20.00 - 22.00

Young Scientific School of Bio-antioxidants

Wednesday, 28.06.2017

Session 1: Topics: Advanced Methods for analysis of bio-antioxidants
Moderators: Corr.Memb. I. Pajeva, Prof. S. Simova, Prof. L. Antonov

YKL1	Prof. Svetlana Simova, Bulgaria	NMR spectroscopy– an useful tool for analysis of bio-antioxidants	09.30-09.50
YKL2	Corr. Memb. Ilza Pajeva, Bulgaria	QSAR and molecular modeling approaches to study bioactive molecules	09.50-10.10
YKL3	Prof. Liudmil Antonov, Bulgaria	Conventional and advanced UV-Vis spectroscopy: applicability and case studies	10.10-10.30
Coffee break			10.30 - 11.00
YKL4	Prof. Pavlina Dolashka, Bulgaria	Mass spectrometric analyses of bio-antioxidants: peptides and glycoproteins	11.00-11.20
YKL5	Prof. Antoaneta Zheleva, Bulgaria	Application of EPR Spectroscopy for studying structures of radicals from bio-antioxidants <i>in-vivo</i> and <i>in-vitro</i>	11.20-11.40
YKL6	Prof. Alia Tadjer, Bulgaria	Computational approaches to the assessment of radical scavenging activity	11.40-12.00
Break			12.00 - 13.00

Wednesday, 28.06.2017

Session 2. Young school of bio- antioxidants Joint Topics
Moderators: Prof. O.Kasaikina, Prof. G. Litwinienko, Prof. L. Antonov

YOP1	<u>Karina.M. Zinatullina</u> , N. P. Khrameeva, O.T. Kasaikina Russia	Interaction of natural tiols and catecholamines with reactive oxygen species	13.00-13.15
YOP2	<u>Natalia V. Potapova</u> , D.A. Krugov, O.T. Kasaikina Russia	Effect some membrane lipids on radical generation in system Ach-LOOH.	13.15-13.30
YOP3	<u>Robert Czochara</u> , A. Gajda, G. Litwinienko, Poland	Antioxidant properties of some C60 fullerene with α -tocopherol analogue – a hybrid of natural and synthetic antioxidant	13.30-13.45
YOP4	<u>Yulian Voynikov</u> , P. Nedialkov, R. Gevrenova, V. Balabanova, I. Doytchinova, D. Zheleva-Dimitrova, Bulgaria	Rapid determination of antioxidant compounds in <i>Portulaca oleracea</i> L. (purslane) by the optimal ultrasound extraction combined with liquid chromatography - high resolution mass spectrometry (LC-HRMS)	13.45-14.00
YOP5	<u>Jakub Cędrowski</u> , K. Dąbrowa, R. Amorati, G. Litwinienko, Poland	Can sulforaphane and its analogues exhibit direct antioxidant activity?	14.00-14.15
YOP6	<u>Paulina Drózdź</u> , Krystyna Pyrzyńska, Poland	Evaluation of the antioxidant capacity of wild berries extracts	14.15-14.30

Coffee Break

14-30 -15.00

YOP7	<u>Michał Adam Janiak</u> , R. Amarowicz, M. Karmać, K. Penkacik, Poland	Antioxidant potential of high molecular weight fraction from green tea	15.00-15.15
YOP8	<u>Katarzyna Pawłowska</u> , M. Kuligowski, J. Nowak, Poland	The influence of different fermentation types on dopamine precursor content in fava beans	15.15-15.30
YOP9	J. Coelho, M.P. Robaloa, <u>Greta Naydenova</u> , D. Yankov, R. Stateva, Portugal, Bulgaria	Green extraction of grape seed oil as a potential source of antioxidants	15.30-15.45
YOP10	Gador-Indra Hidalgo, J.Villasante, M.P.	Antioxidant activity of red fruits and applications of berry extracts and films in food conservation	15.45-16.00

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YOP11	Almajano, Spain Juliana Villasante, L.Kaur, L.Badia, L.Rodero, M.P.Almajano, Spain	Antioxidant activity of walnuts (shel and seed) of different origins	16.00-16.15
YOP12	<u>Roberta G. Barbosa</u> , M. Trigo, J. Toro, Santiago P. Aubourg, Brazil, Spain	Antioxidant effectiveness of alga <i>Bifurcaria bifurcata</i> extracts when employed as filling medium during Atlantic mackerel (<i>Scomber scombrus</i>) canning	16.15-16.30
YOP13	<u>Alexandra Nissimova</u> , A. Dolashki, L. Velkova, P. Dolashka, Bulgaria	Structure and antibacterial activity of glycopeptide, isolated from snail <i>Cornu aspersum</i>	16.30-16.45
YOP14	Viktoria Hristova, Bulgaria	The evolution of natural bio-antioxidants: types, mechanisms of action and new biochemical implications	16.45-17.00
YOP15	<u>Nadya Hristova-Avakumova</u> , B. Nikolova-Mladenova, T. Traykov, V. Hadjimitova, Bulgaria	4-methoxy aroylhydrazones - promising agents protecting biologically relevant molecules from free radical damage	17.00-17.15
	Dr. Alexander Dolashki, Bulgaria	Snail products –Power of nature	17.15-17.20
Session 3: Young Scientific School Poster Presentation			17.30 -18.30
Awards commission: Prof. O.Kasaikina, Prof. L. Antonov, Prof. R. Amarowicz			

**Closing Ceremony, Bulgarian Academy of Sciences - Presidium
Thursday, 29.06.2017**

Prof. Alexei Trofimov, Russian Academy of Sciences, Russia	Closing Plenary Lecture Widening the Chemiluminescence Bio-antioxidant Assays	09.30-10.15
<u>Dr. Liliya Atanasova</u> , Bulgaria	Antioxidant properties of extracts from <i>Daizo</i> silkworm cocoons and relationship with near infrared spectra of intact	10.15-10.30
Dr. Stefan Dochev, coordinator of Young Scientists School of Bio- antioxidants, Austria	Awards of young scientists	10.30-11.00
Prof. Vessela Kancheva Chair of the Organizing Committee, Bulgaria	Closing remarks	11.00-11.30

Prof. Svetlana Simova, Director of Closing remarks
IOCCP - BAS, Bulgaria

11.30-12.00

Monday 26.06, 2017 and Tuesday, 27.06.2017

Posters Presentation

Bulgarian Academy of Sciences - Presidium

Moderators: Prof. P. Dolashka, Prof. P. Denev, Prof. I. Kostova

- PP1 Gaia Rocchitta, P. Carta, L. Koleva, M. A. Dettori, A. Slavova-Kazakova, D. Fabbri, V. Kancheva, P. A. Serra, G. Delogu, Italy, Bulgaria
Antioxidant activity of naturally occurring phenols and their corresponding biphenols as individual compounds and in mixtures with anticancer drug 5-fluorouracil
- PP2 Adrana K. Slavova-Kazakova, V. D. Kancheva, S. E. Angelova, D. Fabbri, G. Delogu, Bulgaria, Italy
Chain breaking antioxidant activity of new synthetic analogues of curcumin as individuals and in mixtures with conventional antioxidants
- PP3 Davide Fabbri, M. A. Dettori, G. Delogu, Italy
Sustainable oxidative coupling of natural bioactive hydroxylated phenols
- PP4 Maria Antonietta Dettori, D. Fabbri, G. Delogu, Italy
Sustainable synthesis of natural-like hydroxylated biphenyls as potential bioactive compounds
- PP5 Antoaneta Trendafilova, T. Lefterova, A. Konakchiev, S. Bozhanov, Bulgaria
Phytochemical screening and antioxidant capacity of *R. damascena* Mill. flowers dry extract
- PP6 Diana Ivanova, S. Boyadzhieva, G. Angelov, P. Nedialkov, F. Tsvetanova, Bulgaria
Activity-guided extraction optimisation of highly efficient antioxidant plant species: Study of *Rhodiola rosea* L. (Golden root)
- PP7 Diana Ivanova, I. Iliev, P. Nedialkov, Y. Ilieva, T. Atanassova, G. Angelov, F. Tsvetanova, G. Yotov, Bulgaria
Antioxidant and antiproliferative activities of *Juniperus virginiana* "Grey Owl" cultivated in Bulgaria
- PP8 Mihail Chervenkov, T. Ivanova, E. Stoyanova, A. Alexandrova, E. Tzvetanova, L. Tancheva, A. Georgieva, E. Kistanova, Bulgaria
Effect of *m. Officinalis* L. On the level of induced lipid peroxidation in mouse liver

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PP9	<u>Yanka Karamalakova</u> , G. Nikolova, R. Kumar, A. Zheleva, V. Gadjeva, Bulgaria	Semiquinone glucoside derivative (SQGD) isolated from <i>Bacillus</i> sp. INM-1: antioxidant activities and protection against radiation-induced oxidative changes
PP10	<u>Galina Nikolova</u> , Y. Karamalakova, R. Arora, A. Zheleva, V. Gadjeva, Bulgaria	Antioxidant/ anticancer potential and radiation-protection abilities of natural antioxidant <i>psoralea corylifolia</i> linn
PP11	<u>Miglena Todorova</u> , M. Pasheva, Y. Kiselova, D. Ivanova, B. Galunska, Bulgaria	Phenolics content and antioxidant activity of beverages on the Bulgarian market – wines, juices and compotes
PP12	<u>Milena Pasheva</u> , M. Todorova, O. Tasinov, M. Nashar, D. Ivanova, Bulgaria	Mulberry heartwood ethanol infusion modulates the expression of glutathione related enzymes in a model of oxidative stress
PP13	Milena Tzanova, <u>Neli Grozeva</u> , M. Gerdzhikova, M. Argirova, D. Pavlov, S. Gospodinova, Bulgaria	Flavonoid content and antioxidant potential of <i>Betonica bulgarica</i> Degen et Neic
PP14	<u>Sonia Losada-Barreiro</u> , C. Bravo-Díaz, L. S. Romsted, F. Paiva-Martins, Spain	Interfacial concentrations of phenolic antioxidants in model food emulsions: effects of acidity and surfactant concentration
PP15	<u>Sonia Losada-Barreiro</u> , C. Bravo-Díaz, F. Paiva-Martins, L.S. Romsted, Spain	Distribution of catechol in corn oil emulsions
PP16	<u>Ivalina Petrova</u> , V. Gandova, P. Denev, V. Shikov, K. Mihalev, Bulgaria	Kinetic parameters of copigmentation effect of caffeic acid and strawberry antocyanins
PP17	<u>Vessela D. Kancheva</u> , A. K. Slavova-Kazakova, S. E. Angelova, S .K. Singh, Sh.Malhotra, B. K. Singh, L. Saso, A. K. Prasad, V. S. Parmar, Bulgaria, India, Italy	Synergistic effects of new antioxidant compositions. Assessing the role of each component of equimolar triple mixtures
PP18	<u>Stanislava Boyadzhieva</u> , S. Georgieva, G. Angelov Bulgaria	Valorization of bio-wastes: Extraction optimization of avocado seeds aimed at maximization of extract's antioxidant activity
PP19	<u>Stanislava Boyadzhieva</u> , G. Angelov, S. Georgieva, D. Yankov, Bulgaria	Evaluation of polyphenolic content and antioxidant capacity of spent coffee grounds
PP20	Jose M. Miranda, M. Trigo, M. López, J. Barros-Velázquez, and <u>Santiago P. Aubourg</u> ,	Quality enhancement of chilled hake (<i>Merluccius merluccius</i>) by employing ice including ethanolic and aqueous extracts of alga <i>Fucus spiralis</i>

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Spain

- PP21 Elina Tzvetanova, A. Alexandrova, Lyubka Tancheva, M. Lazarova, S. Dragomanova, L. Alova, M. Stefanova, R.Kalfin, Bulgaria Antioxidant mechanism in neuroprotective action of lipoic acid learning and memory of rats with experimental dementia
- PP22 Dobrina Tsvetkova, St.Ivanova, Bulgaria Estimation of DPPH radical-scavenging activity of Galantamine hydrobromide and Pymadine on the way to effective prevention and therapy of Alzheimer's disease
- PP23 Zhivko Velkov, Lili Muteva, Alia Tadjer, Bulgaria Some structural effects on the radical-scavenging activity of phenolic acids

Wednesday, 28.06.2017

Session 3: Young Scientific School Poster Presentation

Bulgarian Academy of Sciences 16.00h -17.00h

Awards commission: Prof. O. Kasaikina, Prof. L. Antonov, Prof. R. Amarowicz

- YPP1 Kamila Penkacik, K.Sulewska, R. Amarowicz, Poland Antioxidant activity of buckwheat seed extract and fractions thereof
- YPP2 Katya H. Nikolova, I. T. Stoykov, P. I. Bozov, Bulgaria Responsible structural features for cytotoxic and other kind activity of neo-clerodane diterpens from genus Scutellaria
- YPP3 Yuliana Raynova, A. Marchev, A. Pavlov, K. Idakieva, Bulgaria Antioxidant activity of hemocyanins
- YPP4 Maria Josefa Freiría Gandara, S. Losada-Barreiro, C. Bravo-Díaz, Spain Partitioning of gallic acid and alkyl gallates in binary olive oil-water mixtures
- YPP5 F. Mosca Juliana Villasante, X. Ramis, E. Codina, M. P. Almajano, Spain Pla films for packaging technologies
- YPP6 Simona Aleksandrova, L. Tancheva, S. Dragomanova, L. Alova, M. Stefanova, S. Abarova, B. Tenchov, R. Kalfin, Bulgaria Antioxidant mechanisms in preventive effect of Ellagic Acid on cognitive disorders on experimental model of Alzheimer's disease

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YPP7	<u>Stela Dragomanova</u> , L. Tancheva, M. Georgieva, A. Georgieva, R. Kalfin, Bulgaria	Neuroprotective mechanisms of combination Myrtenal and Lipoic Acid on experimental Alzheimer's disease model
YPP8	J. Ortiz, M. Toro, C. Vega, L. Ramírez, <u>Roberta G. Barbosa</u> , J. Barros-Velazquez, S. P. Aubourg, Brazil, Spain	Inhibition of lipid oxidation development in refrigerated salmon (<i>Salmo salar</i>) paste by addition of different stevia (<i>Stevia rebaudiana</i> Bert.) extracts
YPP9	<u>Lidiya Koleva</u> , S. Angelova, M. A. Dettori, D. Fabbri, G. Delogu, V. D. Kancheva, Bulgaria, Italy	Antioxidant activity of selected o-methoxyphenols, benzenediols and biphenols. Theoretical and experimental studies
YPP10	A.Savova-Kazakova, <u>Lidiya Koleva</u> , V. Kancheva, G. Delogu, Bulgaria, Italy	Comparative study of antioxidant potential of curcumin and its degradation products – vanillin, ferulic acid and dehydrozingerone.
YPP11	<u>Ivalina Trendafilova</u> , M. Popova, Bulgaria	Quercetin complexes formed on initial silica and zn-modified mesoporous materials
YPP12	<u>Stefan Dochev</u> , P. Boranova, V. Kancheva, I.Manolov, Austria, Bulgaria	Phenolic 1,4-dihydropyridines as calcium channel blockers and antioxidants – a potential approach for effective prevention and therapy of cardiovascular diseases
YPP13	<u>Neda Anastassova</u> , A. Mavrova, D. Yancheva, M. Kondeva-Burdina, V. Tzankova, K. Tomovic, A. Kola-revic, G. Kocic, A. Smelcerovic, Bulgaria, Serbia	Hepatoprotective and antioxidant properties of novel hydrazone derivatives of the N,N'-disubstituted benzimidazole-2-thione synthesized as melatonin analogues and study of their mechanism of action
YPP14	<u>Caterina Rita Gemma Costanzo</u> , M. Valcheva-Traykova, I. Kostova, Bulgaria	Effect of Pr(III) nitrate and Pr(III) complex with 5-aminoorotic acid on the accumulation of hydroxyl radicals in rat blood serum.
YPP15	I.Milkova-Tomova, <u>Poli Radusheva</u> , D. Buhalova, K. Nikolova, St. Krustev, Bulgaria	Fluorescence spectroscopy and antioxidant activity from Lingonberry (<i>Vaccinium vitis-idaea</i>) fruit juice
YPP16	<u>Zhana Petkova</u> , G. Antova, M Angelova-Romova, Bulgaria	Changes of lipid composition of stabilized pumpkin seed oil with different antioxidants during long-term storage
YPP17	<u>Manol Ognyanov</u> , N. Petkova, Bulgaria	Phytochemical characteristics and in vitro antioxidant activity of fresh, dried and processed fruits of Cornelian cherries (<i>Cornus mas</i> L.)
YPP18	<u>Radostina Velikova</u> , L. Velkova,	Structure and stability of peptides and hemocyanin from

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	A. Dolashki, P. Dolashka, Bulgaria	garden snail Cornu aspersum
YPP19	<u>Dessislava Gerginova</u> , Y.Mitrev, S. Simova, I. Karadjova, Bulgaria	NMR spectroscopy of Bulgarian wine – an alcoholic beverage rich in bio-antioxidants
YPP20	Jarosław Kusio, <u>Robert Czochara</u> , J.Cędrowski, A. Gajda, G. Litwinienko, Poland	Synthesis and antioxidant properties of metallic nanoparticles functionalized with α tocopherol derivatives
YPP21	<u>Nadya Hristova - Avakumova</u> , L. Atanasova, St. Atanassova, T. Vangelova, V. Hadjimitova, Bulgaria	Near infra-red spectroscopy as a tool for rapid estimation of the antioxidant capacity of red wines