

*Third International Conference on Bio-antioxidants*

*“Natural bio-antioxidants as an inspiration for food chemistry and pharmacy”*

*17 – 21 Nessebar 2019, Bulgaria*

**Preliminary Scientific Program**

<b>Tuesday, 17<sup>th</sup> September 2019</b>		
<b>Registration and information <i>Company for International Meetings</i></b>	<i>Marieta Palace, Nessebar</i>	<b>13.00-18.00</b>
<b>Welcome and Opening Ceremony</b>		<b>17.00-19.00</b>
Prof. Vessela Kancheva Chair of the Organizing Committee, IOCCP – BAS, Bulgaria	Welcome address 3 <sup>rd</sup> ICBA 2019	17.00-17.20
Assoc. Prof. Petko Denev Coordinator YSSBA 2019, IOCCP – BAS, Bulgaria	Welcome address Young Scientists School	17.20-17.30
Prof. Pavleta Shestakova IOCCP-BAS, Bulgaria	150 years Bulgarian Academy of Sciences	17.30-17.45
Prof. Margarita Popova, IOCCP-BAS, Bulgaria	Welcome address IOCCP-BAS	17.45-18.15
Mr. Alexander Kirilov	Sponsors presentations - Metrohm	18.15-18.30
Mr. Victor Vodenicharski	Sponsors presentations – Shimadzu	18.30-19.00
<b>Welcome Reception</b>		<b>19.00-21.30</b>

<b>Wednesday, 18<sup>th</sup> September 2019</b>		
<b>Registration</b>		8.00-12.00
Prof. Grzegorz Litwinienko University of Warsaw, Poland	<b>Opening Plenary Lecture</b> From natural antioxidants to their modified synthetic analogues – the inspiration for physical organic chemistry	9.00-9.45
<b>Topic A: Oxidative Stress and Human Health</b> <b>Moderators: Prof. V. Kancheva, Prof. C. Bravo-Diaz</b>		
<b>PL1</b>	Prof. Veselina Gadjeva Trakia Univ., Stara Zagora, Bulgaria	Oxidative stress parameters in patients with vitiligo and psoriasis: relationship to diseases activity and therapy
		9.45-10.30
<b>Coffee break / Poster session 1</b>		<b>10.30-11.00</b>
<b>KL1</b>	Prof. Jan Frederik Stevens Oregon State University, USA	Vitamin C protects Xanthine oxidase: potential relevance to nitrate therapy
		11.00-11.30
<b>Topic B: Natural Bio-antioxidants</b> <b>Moderators: Prof. V. Kancheva, Prof. C. Bravo-Diaz</b>		
<b>PL2</b>	Prof. Se-Kwon Kim Korea Maritime and Ocean University, South Korea	Development and application of bioactive substances derived from marine organisms
		11.30-12.15
<b>Lunch break / Poster session 1</b>		<b>12.15-13.30</b>
<b>KL2</b>	Dr. Riccardo Amorati University of Bologna, Italy	Unexpected antioxidant activity of bio- quinones
		13.30-14.00
<b>Topic C: Synthetic Analogues of Natural Bio-antioxidants</b> <b>Moderators: Prof. O. Kasaikina, Prof. J. F. Stevens</b>		
<b>PL3</b>	Prof. Virinder S. Parmar University of New York, USA	From natural polyphenolic antioxidants to their modified synthetic analogues, and then to polymeric antioxidants of higher efficacy
		14.00-14.45
<b>KL3</b>	Prof. Aleksei Trofimov Russian Academy of Sciences, Russia	Chemiluminescence approach for monitoring the cellular generation of reactive oxygen species in the blood upon using nicotine products
		14.45-15.15
<b>Coffee break / Poster session 1</b>		<b>15.15-17.00</b>
<b>Nessebar Old town walking tour</b>		<b>17.00-18.30</b>

**Thursday, 19<sup>th</sup> September 2019**

<b>Registration</b>			8.00-12.00
<b>Topics D and E: Homogeneous and Heterogeneous Lipid Oxidation / Food Analysis, food additives and food supplements Moderators: Prof. A. Trofimov, Prof. R. Amorati</b>			
<b>PL4</b>	Prof. Carlos Bravo-Díaz University of Vigo, Spain	Targeting antioxidants to interfaces or how to improve antioxidant efficiency in oil-in-water emulsions	9.00-9.45
<b>KL4</b>	Prof. Olga Kasaikina Russian Academy of Sciences, Russia	The influence of moderate magnetic fields on lipid oxidation and stabilization	9.45-10.15
<b>Coffee break / Poster session 2</b>			<b>10.15-11.00</b>
<b>PL5</b>	Prof. Abdulatef Ahmed Yildiz Technical University, Turkey	Ambiguously many herbs do not have an integrated nutritional and medical character	11.00-11.45
<b>KL5</b>	Prof. Fanny Ribarova Med. Univ., Sofia, Bulgaria	Food – source of nutrients with antioxidant potential	11.45-12.15
<b>Lunch break / Poster session 2</b>			<b>12.15-13.30</b>
Prof. Alja Tadger Sofia University, Bulgaria		<b>Closing Lecture</b> Topology dependent mechanism of OH dissociation of phenolics	13.30-14.00
<b>Young Scientists School on Bio-antioxidants</b>			
<b>Session 1: Advanced methods for analysis of bio-antioxidants Moderators: Prof. R. Amorati, Prof. G. Litwinienko</b>			
<b>YKL1</b>	Prof. Pavleta Shestakova IOCCP-BAS, Bulgaria	Solid state NMR spectroscopy as a tool to study polymorphism of bioactive substances	14.00-14.20
<b>YKL2</b>	Prof. Premysl Mladenka, Charles University in Prague, Czech Republic	Metal chelation by polyphenols, what are the consequences	14.20-14.40
<b>YKL3</b>	Prof. Irina Potoroko South Ural State University, Chelyabinsk, Russia	Ultrasound assisted nanoemulsion formation for encapsulating biologically active substances	14.40-15.00
<b>Coffee break / Poster session 2</b>			<b>15.00-15.30</b>
<b>YKL4</b>	Prof. Pavlina Dolashka IOCCP-BAS, Bulgaria	Glycosilation and mass spectrometric analyses	15.30-15.50
<b>YKL5</b>	Assoc. Prof. Petko Denev, IOCCP-BAS, Bulgaria	Fluorescence-based methods for determination of antioxidant activity of food, plant and biological samples	15.50-16.10
<b>YKL6</b>	Dr. Petko Alov Inst. Biophys. & Biomed. Eng.-BAS, Bulgaria	Methods of QSAR/QSPAR and their application in computational studies of bio-antioxidants	16.10-16.30
<b>YKL7</b>	Assoc. Prof. Denitsa Yancheva IOCCP-BAS, Bulgaria	DFT methods for study of radical scavenging mechanisms and characterization of the reaction intermediates	16.30-16.50
<b>Poster session 2</b>			<b>17.00-18.00</b>
<b>Official Dinner</b>			<b>19.00-22.00</b>

Friday, 20<sup>th</sup> September 2019

**Young Scientists School on Bio-antioxidants**

**Session 2: All Topics: A, B, C, D, E and F: Young scientists school of bio-antioxidants**  
**Moderators: Assoc. Prof. P. Denev, Prof. P. Shestakova**

<b>YOP1</b>	Sonia Losada Barreiro, University of Vigo, Spain	Control of the antioxidant efficiency of gallates in omega-3 enriched oil-in-water emulsions	9.00-9.15
<b>YOP2</b>	Robert Czochara University of Warsaw, Poland	Synthesis, thermal stability and antioxidant properties of c60 fullerene functionalized with phenolic addents	9.15-9.30
<b>YOP3</b>	Jakub Cedrowski University of Warsaw, Poland	Sulforaphane and its analogues: the scavengers of DPPH radical with no chain-breaking activity	9.30-9.45
<b>YOP4</b>	Jaroslaw Kusio University of Warsaw, Poland	Bodipy-based fluorescent sensors for peroxy radicals – synthesis and studies	9.45-10.00
<b>YOP5</b>	Neda Anastasova IOCCP-BAS, Bulgaria	Neuroprotective and radical-scavenging properties of benzimidazole aroyl hydrazones	10.00-10.15
<b>YOP6</b>	Yafang Guo University of Bologna, Italy	Study on the synergy of $\gamma$ -terpinene with phenolic antioxidants	10.15-10.30
<b>Coffee break</b>			<b>10.30-11.00</b>
	<b>Poster session 3A YPP1-YPP18</b>	<b>Young Scientists School Poster Presentations: All Topics</b>	<b>11.00-12.30</b>
<b>Lunch break / Poster session 3</b>			<b>12.30-13.30</b>
	<b>Poster session 3B YPP19-YPP36</b>	<b>Young Scientists School Poster Presentations: All Topics</b>	<b>13.30-15.00</b>
<b>YSSBA 2019 Poster Awarding Commission: Assoc. Prof. P. Denev, Prof. V. Gadjeva, Prof. P. Shestakova</b>			
<b>Closing ceremony</b>			
Prof. Santiago Aubourg CSIC, Marine Res. Inst., Vigo, Spain	<b>Closing Plenary Lecture</b> Impact of alga <i>Fucus spiralis</i> extracts on the quality enhancement of commercial fish products		<b>15.00-15.45</b>
Assoc. Prof. Petko Denev, Coordinator YSSBA 2019	Young Scientist Awards. Presented for Best Young Scientist Oral and Best Young Scientist Poster Presentations		<b>15.45-16.00</b>
All participants	Discussion about the new perspective of bio-antioxidants		<b>16.00-16.30</b>
Prof. Vessela Kancheva Chair of the Organizing Committee, Bulgaria	Closing remarks		<b>16.30-16.45</b>
Assoc. Prof. Petko Denev	Welcome to the 4 <sup>th</sup> ICBA2020 in Plovdiv		<b>16.45-17.00</b>

**Saturday, 21<sup>st</sup> September 2019**

	<b>Departure</b>	<b>9.00-12.00</b>
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