

PROGRAM

Thursday – 04.06.2015	
16:00 – 19:00	REGISTRATION

17:30-17:40	OPENING CEREMONY <i>Chairpersons: Elżbieta Skrzydlewska, Neven Zarkovic</i>
17:40-19:10	OPENING SESSION <i>Chairman: Bogusław Buszewski</i> Auditorium 1
17:40-18:10 L-1	<u>Zarkovic N.</u> <i>To stress or not to stress: Is this the question of oxygen?</i>
18:10-18:40 L-2	<u>Phang J.M.</u> , Liu W., Hancock Ch. <i>The proline regulatory axis and metabolic reprogramming</i>
18:40-19:10 L-3	<u>Bast A.</u> , Haenen G.R.M.M., Lemmens K.J.A., Sthijns M.M.J.P.E., Wim J.F. van der Vijgh W.J.F. <i>Adaptive processes in the action of antioxidants</i>

19:15	Welcome party/Branicki Palace
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Friday – 05.06.2015	
9:00-13:00	Session 1 Metabolomics/lipidomics in diagnosis and therapy <i>Chairpersons: Anne Negre-Salvayre and Michał Markuszewski</i> Auditorium 1
9:00-9:30 L-4	<u>Buszewski B.</u> , Szultka-Młyńska M. <i>A new approach in target biomedical and pharmacological analyses</i>
9:30-10:00 L-5	<u>Rupérez F.J.</u> <i>From antioxidant properties to nutraceutical possibilities through metabolomics</i>
10:00-10:30 L-6	<u>Bilsborough S.</u> <i>From data to understanding: Addressing the challenges of data interpretation in the multi-omics laboratory</i>
10:30-11:00 L-7	Kordalewska M., Struck-Lewicka W., Bujak R., Mpanga A.Y, Markuszewski M., Jacyna J., Matuszewski M., Kaliszan M., <u>Markuszewski M.J.</u> <i>Urine metabolic fingerprinting in prostate cancer by LC/MS and GC/MS</i>
11:00-11:30	Coffee break Poster session
11:30-12:00	Larroque-Cardoso P., Zarkovic K., Uchida K., Salvayre R., <u>Negre-Salvayre A.</u>

L-8	<i>Implication of lipid peroxidation in skin and vascular elastin aging</i>
12:00-12:30 L-9	Tatzber F. , Pursch E., Resch U., Wonisch W., Rünzler D. <i>Production, characterisation and immortalisation of a human monoclonal IgM antibody binding to MDA-LDL</i>
12:30-12:50 L-10	Dereziński P. , Klupczyńska A., Matysiak J., Hajduk J., Kokot Z.J. <i>Analytical-bioinformatic strategy in search for prostate cancer biomarkers</i>
12:50-13:10 L-11	Łuczaj W. , Jarocka-Karpowicz I., Moniuszko A., Domingues P., Domingues M.R., Pancewicz S., Skrzydlewska E. <i>Analysis of plasma phospholipid profiles by liquid chromatography–tandem mass spectrometry in high resolution mode for evaluation of neuroborreliosis patient</i>
13:10-14:00	Poster session/ Coffee break
14:00-19:00	Session 2 – part 1 Diseases, antioxidants and drugs Chairpersons: Antonella Forlino and Jerzy Pałka Auditorium 1
14:00-14:30 L-12	Besio R., Giaioia R., Maruelli S., Tonelli F., Rossi A., Forlino A. <i>Prolidase in health and disease</i>
14:30-15:00 L-13	Kaliszan R. <i>Current trends in search for better drugs</i>
15:00-15:30 L-14	Pałka J. <i>Attenuation of EGFR and integrin family receptor signaling for prospective cancer treatment</i>
15:30-16:00 L-15	Gackowski D. , Zarakowska E., Starczak M., Modrzejewska M., Oliński R. <i>Precise, direct and high throughput analyses of broad spectrum of endogenously generated DNA base modifications with 2D-UPLC/MS/MS methodology; possible clinical implication</i>
16:00-16:30 L-16	Leroy P. <i>Use of conventional antioxidant power assays for evaluating redox properties of inorganic nanoparticles: possible pitfalls</i>
16:30-17:00	Coffee break Poster Session
17:00-17:20 L-17	Konończuk J., Siemionow K., Drągowski P., Czyżewska U., Surażynski A., Pałka J., Miltyk W. <i>Proline oxidase dependent proapoptotic activity of $\alpha_{IIb}\beta_3$-integrin ligands and in MCF-7 human breast cancer cells</i>
17:20-17:40 L-18	Pronko P.S. , Satanovskaya V.I., Khomich T.I., Zimatkin S.M., Kandyba N.I., Golubovich V.P., Martinovich V.P., Polikarpova V.I. <i>Effects of thyrotropin-releasing hormone and its synthetic pentapeptide analog on ethanol-produced biochemical and morphological changes in the rat brain</i>
17:40-18:00 L-19	Yelisyyeva O. , Semen K., Kaminsky D., Mysakovets O. <i>Heart rate variability as a biomarker of stress resistance: why and how</i>
18:00-18:20 L-20	Semen Kh.O. , Kaminsky D.V., Panina L.I., Yavorsky O.H., Yelisyyeva O.P., Skrzydlewska E. <i>Correction of the oxidative stress as the important mechanism of sildenafil therapy in patients with pulmonary arterial hypertension: role of the heart rate variability</i>
18:20-18:40 L-21	Moiseenok A.G. , Semenov D.S., Pekhovskaya T.A., Omelyanchik S.N., Lukienko Ye.P., Gurinovich V.A., Kanunnikova N.P. <i>Possibility of subchronic administration of D-panthenol for modulation of CoA system and redox status of cellular structures</i>
18:40-19:00 L-22	Łuczaj W., Moniuszko A. , Jarocka-Karpowicz I., Pancewicz S., Andrisic L., Zarkovic N., Skrzydlewska E. <i>Tick-borne encephalitis - lipid peroxidation and its consequences</i>

17:00-19:15	Session 3 Proteomics as an approach to diagnosis and therapy Chairpersons: Maria Fedorova and Betul Karademir Auditorium 2
17:00-17:20 L-23	Kokot Z.J. , Matysiak J., Dereziński P., Hajduk J., Klupczyńska A., Nowicki P. <i>Mass spectrometry in proteomics and metabolomics – possible applications in biomedical studies</i>
17:20-17:45 L-24	Matysiak J. , Hajduk J., Kokot Z.J. <i>Sample preparation and analytical strategies for MALDI-TOF/TOF-MS analysis.</i>
17:45-18:15 L-25	Fedorova M. , Milic I., Zhixu Ni Z., Griesser E., Vemula V., Hoffmann R. <i>Analytical strategies for analysis of protein adducts with oxidized lipids: implementation of ion mobility and mass spectrometry</i>
18:15-18:45 L-26	Domingues P. , Guedes S., Silva A., Vitorino, R. <i>Analysis of post-translational modifications by mass spectrometry</i>
18:45-19:15 L-27	Karademir B. , Sari G., Musuruni S., Wicher G., Mi J., Bergquist J. <i>Proteomic approach to detect neuropathy related proteins induced by proteasome inhibitors bortezomib and carfilzomib</i>

19:30	Get together party
Saturday – 06.06.2015	
9:00-11:20	Session 2 - part 2 Diseases, antioxidants and drugs Chairpersons: Gethin McBean and Audrius Maruska Auditorium 1
9:00-9:30 L-28	McBean G. <i>Antioxidant defence in brain astrocytes: the role of cysteine and glutathione</i>
9:30-10:00 L-29	Eckl P. , Bresgen N., Bojaxhi E., Vogl C., Martano G., Ferk F., Knasmüller S., Martano G., Stutz H. <i>Oxidative breakdown products of β-carotene: generation, toxicological potential and chemical analysis</i>
10:00-10:30 L-30	Główniak K, Baj T, Sieniawska E. <i>Medicinal plants as potential sources of antioxidant compounds</i>
10:30-11:00 L-31	Maruska A. <i>Separation of anticancer fractions from willow-herb (<i>Chamerion angustifolium</i> L.) extracts and their molecular and biological analysis</i>
11:00-11:20 L-32	Gegotek A. , Bielawska K., Kawałko-Rybaltowska P., Wroński A., Surazyński A., Skrzydlewska E. <i>The influence of polyphenols on UV irradiation effect on the cross-talk between electrophiles, antioxidant defence and endocannabinoid system of fibroblasts</i>
11:20-11:40 L-33	Buszewska-Forajta M. , Siluk D., Staśkowiak D., Stępnia A., Kaliszan R. <i>Search for potential wound healing agents in grasshopper abdominal secretion (<i>Chorthippus</i> spp.) by GC-MS</i>
11:40-11:45	Closing remarks
11:45-12:15	Closed meeting of the Steering Committee of the 4-HNE Club International (for the Steering Committee Members only)

12:30-19:00	Session 4 Young Investigators Session Dept. Analytical Chemistry/ 2nd level ECF
12:00–12:30	1. Modern ways of samples transport, cooling, freezing, storage, thawing. <i>Workshop in cooperation with Bioanalytic</i>
12:30-15:00	2. Metabolomics Workflow. Using High-Resolution LC–MS and Mass Profiler Professional software for data mining and identification of metabolites. <i>Workshop in cooperation with Perlan Technologies</i>
16:00-18:30	3. GCxGC-TOFMS in metabolomic researches <i>Workshop in cooperation with LECO Polska</i>

13:00-20:00	<i>Tour</i>
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Sunday – 07.06.2015	
9:00-13:00	Session 5 Young Investigators Session Dept. Analytical Chemistry/ 2nd level ECF
	4.Oxidative metabolism of amodiaquine (phase I) and adduct formation (phase II). ROXY system – a tool for mimicking of drug metabolism. <i>Workshop in cooperation with Shim-Pol</i>

9:00-15:00	<i>Tour</i>
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