EPMA World Congress

September 20th - 21st 2013, Brussels, Belgium

Venue: Representation of the State of North Rhine-Westphalia to the European Union, September 20th 2013

Rue Montoyer 47, 1000 Brussels
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www.europa.nrw.de
Registration: 7:30 – 17:00
Plenary Lecture, EU-Commission
“European perspectives in healthcare sciences and implementation”
Irene Norstedt
Head of the Unit “Personalised Medicine”
Hall A, 9:00 – 9:30

Specialised Session
Predictive, Preventive and Personalised Medicine in Cancer
Hall A, 9:30 – 12:30

Chairmen: Prof. Dr. D. Desiderio, University of Tennessee Health Science Center, Memphis, USA
Dr. S. Hagan, Glasgow Caledonian University, Scotland
Prof. Dr. R. Danesi, University of Pisa, Italy
Dr. G. Vittadini, Braco Imaging, Milan, Italy

Speakers:
• Dr. R. Bubnov, Ukrainian Academy of Information, Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine. National projects dedicated to the PPPM in Cancer: Overview.
• Prof. Dr. B.C. Yoo, Research Institute, National Cancer Center, Gyeonggi, Republic of Korea. National projects dedicated to the PPPM in Cancer: Overview.
• Dr. M.J. Duffy, Clinical Research Centre and UCD School of Medicine and Medical Science, Conway Institute, University College Dublin, Ireland. Personalised Treatment for Cancer: Role of Biomarkers.
• Dr. M. Del Re and Prof. Dr. Romano Danesi, University of Pisa, Italy. Clinical pharmacogenetic characterization of DPD polymorphisms for pretreatment screening of patients candidates to fluoropyrimidine therapy.
• Prof. Dr. X. Zhan, Key Laboratory of Cancer Proteomics of Chinese Ministry of Health, Xiangya Hospital, Central South University, 87 Xiangya Road, Changsha, Hunan 410008 P. R. China. Multi-parameter systematic strategy opinion that predicts, prevents, and personalized treats a cancer.
• Dr. G. Grech, University of Malta, Malta. Predictive markers in cancer patient diagnosis, classification and prediction of therapy outcome using leukemia as a model.
• Dr. M. Pešta, Faculty of Medicine and University hospital in Pilsen, Charles University in Prague, Czech Republic. Relevance of ERCC1, RRM1 and BRCA1 in surgically treated non-small cell lung cancer patients.
• Dr. M. Peshkov, Scientific Research Institute of Physical-Chemical Medicine, Moscow, Russia. Genome-proteome system for prostate cancer.
• Dr. M. Koudová, GHC GENETICS, Ltd. - Private Medical Facility, Prague, Czech Republic. Frequency of
the DPYD 2A allele in the Czech population.

- Dr. U. Rovigatti, Pisa University Medical School, Italy. **Pitfalls and perspectives in cancer genomes NGS studies: implications for predictive, preventive and personalized medicine (PPPM).**

- Dr. J. Polivka, Faculty of Medicine in Pilsen, Charles University in Prague, Czech Republic. **The application of personalized medicine in neurooncology.**

- Dr. B. Doyle, Trinity College Dublin, Ireland. **Comparing ion torrent with pyrosequencing and sanger sequencing for the detection of TP53 mutations in colorectal cancer.**

- Dr. P. Pitule and Prof. Dr. M. Kralickova, Biomedical Centre, Faculty of Medicine in Plzen, Charles University in Prague, Czech Republic. **Novel approaches such as pharmacogenetics and liquid biopsies in tumor treatment in the era of personalized therapy.**

- Dr. I. Volchek, DiscoveryMed Ltd, St. Petersburg, Russia. **Possibilities for preventive and personalized therapy of cancer by drug screening.**

- Dr. E. Moiseeva, Russian Academy of Science, Moscow, Russia. **Preventive regimen of immunostimulants within personalised “3S” paradigm of anticancer drug testing.**

- Dr. I. Třešková and Prof. Dr. O. Topolčan, Faculty of Medicine and University hospital in Pilsen, Charles University in Prague, Czech Republic. **Prognostic value of tumour markers in malignant melanoma.**

- Dr. R. Fuchsová and Prof. Dr. O. Topolčan, University Hospital in Pilsen, Czech Republic. **Serum levels of markers in early detection of prostate cancer (pilot study).**

**Closing remarks**

**Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”**

- **“Molecular signature” in blood of liver cancer diagnosed patients as a criterion for optimal therapy modalities.** Golubnitschaja O, Cebioglu M, Yeghiazaryan K, Pieper CC, Schild HH, Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany

- **Assessment of endometrial receptor systems for PPPM approach for endometrial hyperplasia in reproductive age women.** Goncharenko VM, Beniuk VA, Vyniarskyi YaM, Bashynskyi SM, Bubnov RV, 1Clinical hospital “Pheophania”, Kyiv, Ukraine, 2Bogomolets National Medical University, Third Department of Obstetrics and Gynecology, Kyiv, Ukraine, 3Institute of Pathology, Helios Klinik, Berlin, Germany

- **Personalized treatment strategy for atypical endometrial hyperplasia with regards to age, comorbidities and endometrial receptor status.** Goncharenko VM, Beniuk VA, Vyniarskyi YaM, Bashynskyi SM, Bubnov RV, 1Clinical hospital “Pheophania”, Kyiv, Ukraine, 2Bogomolets National Medical University, Third Department of Obstetrics and Gynecology, Kyiv, Ukraine, 3Institute of Pathology, Helios Klinik, Berlin, Germany
• **Challenges in breast cancer management and prevention.** Debald M\(^1,2\), Kuhn W\(^1,2\), Golubnitschaja O\(^1,3\), \(^1\)Department of Obstetrics and Gynaecology, Centre for Integrated Oncology, University of Bonn, Germany, \(^2\)Breast Cancer Research Centre, University of Bonn, Germany, \(^3\)Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany

• **Detection of KRAS mutant alleles in circulating cell-free tumor DNA in colorectal cancer patients resistant to cetuximab.** Del Re M\(^1\), Ulivi P\(^2\), Passardi A\(^2\), Zoli W\(^2\), Danesi R\(^2\), Amadori D\(^2\), \(^1\)Department of Clinical and Experimental Medicine, University of Pisa, Italy, \(^2\)Bioscience and Medical Oncology Units, Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST), IRCCS, Meldola, Italy

• **Hepatic oncology diagnosis based on imaging fractal analysis. Preliminary results.** Bubnov RV\(^1\), Melnyk IM\(^2\), \(^1\)The Centre of ultrasound diagnostics and interventional sonography, Clinical hospital “Pheophania” of State Affairs Department, \(^2\)International Research and Training Center for Information Technology and Systems NAS and MES of Ukraine, Kyiv, Ukraine

• **Personalized cancer care through biology informed treatment decisions.** Kuhn P, Scripps Physics Oncology Center, USA

• **CD133-regulated nucleophosmin expression in human colon cancer cells.** Kim K\(^1,2\), Kim KH\(^1,2\), Kim SC\(^3\), Hong JP\(^1\), Kim WK\(^1\), Yoo BC\(^1\), Ku JL\(^2\), \(^1\)Colorectal Cancer Branch, Division of Translational and Clinical Research I, Research Institute, National Cancer Center, Gyeonggi, Republic of Korea, \(^2\)Laboratory of Cell Biology, Cancer Research Institute, Seoul National University College of Medicine, Seoul, Republic of Korea

• **Mechanism of anti-tumor and anti-invasive function of SOCS isoform in colon cancer models.** Kim WK\(^1,2\), Ryu JY\(^2\), Yoo BC\(^1\), Lee CE\(^3\), \(^1\)Colorectal Cancer Branch, Division of Translational and Clinical Research I, Research Institute, National Cancer Center, Gyeonggi, Republic of Korea, \(^2\)Laboratory of Immunology, Department of Biological Science, Sungkyunkwan University, Suwon, Republic of Korea

• **HSP27 phosphorylation inhibitor regulates Her2 expression in human breast cancer cell line SK-BR-3 with induced Herceptin resistance.** Kim MK\(^1\), Kim SC\(^2\), Kim WK\(^1\), Kim K\(^1\), Kim KH\(^1\), Yoo BC\(^1\), \(^1\)Colorectal Cancer Branch, Division of Translational and Clinical Research I, Research Institute, National Cancer Center, Gyeonggi, Republic of Korea, \(^2\)Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, Ewha Womans University Mokdong Hospital, College of Medicine, Ewha Womans University Seoul, Republic of Korea

*Creation of integrative projects and partnerships: follow-up meeting*

Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21\(^{st}\), 9:00 - 13:00
Specialised Session
Integrative Bioinformatics, Patient Profiling, Disease Modelling, Predictive Medicine
Hall A, 13:30 – 16:15

Chairmen:  
Prof. Dr. M. Hofmann-Apitius, Fraunhofer Institute for Algorithms and Scientific Computing, Sankt Augustin, Germany  
Dr. M. Marcus-Kalisch, Tel Aviv University, Israel  
Prof. Dr. M. Legg, Royal College of Pathologists of Australasia, Sydney, Australia  
Dr. L. Berliner, New York Methodist Hospital, Brooklyn, NY, USA

Speakers:

- Prof. Dr. M. Hofmann-Apitius, Department of Bioinformatics, Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Sankt Augustin, Germany. From integrative disease modelling to predictive, preventive, personalized and participatory (P4) medicine.
- Prof. Dr. M. Legg, Royal College of Pathologists of Australasia, Sydney, Australia. The role of informatics in the shift from reactive to proactive healthcare.
- Dr. A. Shabo, IBM Haifa Research Lab, Israel. Towards a translational health information language.
- Dr. M. Marcus-Kalish, Tel Aviv University, Israel. Big data versus Small data analysis: Towards personalized medicine practice.
- Prof. Dr. V.S. Baranov, Ott’s Institute of Obstetrics & Gynecology RAMS, St.Petersburg, Russia. Genetic Pass as a Background of Predictive, Preventive, Personalized Medicine options and limitations.
- Prof. Dr. M. Paltsev and Prof. Dr. I. Kvetnoy, National Research Centre «Kurchatov Institute»; Ott Institute of Obstetrics and Gynecology RAMS; Moscow, Saint-Petersburg, Russia. The expression of signal molecules in buccal epithelium: new abilities of molecular personalized diagnosis of human diseases.
- Dr. N. Laube and Dr. H. Busch, NTTF Coatings GmbH, Rheinbreitbach, Germany. The BRI-on-Chip disposable test device opens up substantial savings potentials in urolithiasis treatment.
- Dr. V. Grazioli and Dr. G. Vittadini. Bracco Imaging, Italy. Evaluation of hTERC (3q26) gain by Fluorescence in situ hybridization (FISH) to predict the behavior of oral epithelial precursor lesions.
- Dr. R. Bubnov and Dr. U. Lushchyk (joint presentation), Research Center Veritas, Kyiv, Ukraine, Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine. The topic related national projects: overview.
- Dr. L. Berliner, New York Methodist Hospital, Brooklyn, NY, USA. Information and communication technology in personalized medicine: a clinical use-case for hepatocellular cancer.

Closing remarks
Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

- Multimodal approaches in female healthcare: The role of integrative bioinformatics. Golubnitschaja O, Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany
- Streamlining genetic testing by standardizing its report formats and exchange among all stakeholders. Shabo A, IBM Haifa Research Lab, Israel
- Hematopoietic stem cell transplantation (HSCT) as an example of personalized approach in the management of individual disease. Everaus H, Tartu University Hospital, Estonia
- The Bonn-Risk-Index for determination of the risk of urolith formation and other metabolic diseases. Laube N1, Berg W2, Knoll T3, Busch H1, 1NTTF Coatings GmbH, Rheinbreitbach, Germany, 2Klinik und Poliklinik für Urologie, Universitätsklinikum Jena, Germany, 3Klinikum Sindelfingen-Böblingen, Sindelfingen, Germany
- IT-technology for vascular monitoring as an evidential base in prevention and prediction of a vascular pathology. Lushchyk UB1, Novytskyy VV1, Bubnov RV2, Legka II3, Kovpak AO3, 1Research Center Veritas, Kyiv, Ukraine, 2The Centre of ultrasound diagnostics and interventional sonography, Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine, 3Center for Innovative Medical Technologies Veritas IT Med, Kyiv, Ukraine
- Solving strategic problems of medicine of the future on the basis of the foresight methodology. Pankratova ND1, Bubnov RV2, 1Institute for Applied Systems Analysis NTU “KPI”, Kyiv, Ukraine, 2Clinical hospital “Pheophania”, Kyiv, Ukraine
- Introduction to sonosurgery. Pilecki Z1, Pilecki G1, Bubnov R2, 1Sports Medicine Center in Zabrze, Poland, 2Clinical Hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine
- Evaluation of biomarkers for diagnostic decision making in patients with gout using novel mathematical model. Complex PPPM approach. Bubnov RV1, Melnyk IM2, 1Clinical Hospital Pheophania, Center for ultrasound diagnosis and interventional sonography, 2International Research and Training Center for Information Technology and Systems NAS of Ukraine, Kyiv, Ukraine

Creation of integrative projects and partnerships: follow-up meeting
Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 - 13:00
Specialised Session
Predictive, Preventive and Personalised Medicine in Diabetes Care
Hall A, 16:30 – 18:30

Chairmen:  
Prof. Dr. M.S. Mozaffari, Georgia Regents University, Augusta, Georgia, USA  
Dr. S. von Bandemer, Institute “Arbeit und Technik”, Gelsenkirchen, Germany  
Prof. Dr. S. Suchkov, by I.M.Sechenov First Moscow State Medical University, Moscow, Russia.

Speakers:
- Prof. Dr. M.S. Mozaffari, Georgia Regents University, Augusta, Georgia, USA. **Introductory chapter.**
- Dr. I. Smokovski, Cabinet of Minister, Ministry of Health, Macedonia, FYROM. **The challenge of Diabetes treatment in Macedonia.**
- Prof. Dr. S. Suchkov, I.M.Sechenov First Moscow State Medical University, Moscow, Russia. **Predictive, preventive and personalized medicine (PPPM) as a strategic avenue and global tool for advancing T1D-related care: fundamental, applied and affiliated issues.**
- Prof. Dr. T. Josifova, University of Basel, Switzerland. **What did inspire me to talk at the EPMA Congress?**
- Dr. M. Bartoli, Department of Ophthalmology, Georgia Regents University, Augusta, Georgia, USA. **Validation of biomarkers of diabetic retinopathy for preventing and predictive medicine in diabetic complications.**
- Prof. Dr. M. Weber, University of Mainz and Dr. S. von Bandemer, Institute “Arbeit und Technik”, Gelsenkirchen, Germany. **Risk detection and risk management for diabetes patients with atrial fibrillation.**
- Prof. Dr. H. Podbielska, Institute of Biomedical Engineering and Instrumentation, Wroclaw Univeristy of Technology, Poland. **Quality of life of people suffering from the diabetes type 2 – examination of the influence of various factors to prevent complications.**
- Dr. M. Sautin, European clinic of sports traumatology and orthopaedics (ECSTO), Moscow, Russia, Moscow State University, Moscow, Russia. **Opportunities of predictive medicine at the treatment of Diabetes mellitus complications.**
- M.Sc. L. Vistejnova, Faculty of Medicine in Pilsen, Charles University in Prague, Pilsen, Czech Republic. **Foot ulcers in diabetes mellitus patients – protein analysis of wound environment.**

**Closing remarks**
**Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”**

- **The German Diabetes self-help community and its view to personalised medicine.** Hadder M and Breitbach U, Deutsche Diabetes-Hilfe - Menschen mit Diabetes, Landesverband Nordrhein-Westfalen e. V., Germany

- **Use of ultrasound to enhance PEI-mediated gene delivery in vivo on diabetic model.** Bubnov RV, Toporova OK, Irodov DM, Gulko TP, Ruban TP, Morgunov PV, Kordium VA. 1Clinical hospital “Pheophania” of State Affairs Department, 2Institute of Molecular Biology and Genetics of NAS of Ukraine

- **Chromium picolinate therapy in pre/diabetes care: Recognition of individual risks and outcomes.** Golubnitschaja O, Yeghiazaryan K, Schild HH, Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany

- **Gender specific complications in female diabetic patients: an integrative view.** Golubnitschaja O, Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany

- **Apoptosis of stem cells likely determines the manifestation of type 2 diabetic nephropathy: predictive and preventive potentials.** Mozaffari MS, Liu JY, Yu JC, Baban B, Department of Oral Biology and Plastic Surgery, 1Georgia Regents University, Augusta, Georgia, USA.

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**Creation of integrative projects and partnerships: follow-up meeting**

Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00-13:00

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**Specialised Session**

**Predictive, Preventive and Personalised Medicine in Cardiovascular Disease**

**Hall B, 9:30 – 12:30**

**Chairmen:** Prof. Dr. P. Evans, Department of Cardiovascular Science, Faculty of Medicine, Dentistry & Health University of Sheffield, UK  
Prof. Dr. H. Iso, National Cerebral and Cardiovascular Center, Osaka, Japan

**Speakers:**

- Dr. T.M. Helms, Peri Cor Cardiology Working Group GmbH / Ass. UCSF, Hamburg, Germany. **Integrative projects in CVD.**
- Dr. S. Babak, Immanuel Kant Baltic Federal University, Kaliningrad, Russia. **Personalized monitoring of drug therapy effectiveness based on high-throughput analysis of drugs utilization and inflammatory factors closed functional networks in cardiovascular pathogenesis pathologies.**
• Dr. C. Giachino, University of Turin, Italy. The guidance of stem cell cardiomyogenic differentiation by bioartificial scaffolds mimicking myocardium structure and biomechanics.

• Prof. Dr. A. van der Lugt, Erasmus MC University Medical Center Rotterdam, The Netherlands. Optimizing risk prediction of coronary heart disease and cerebrovascular disease with imaging biomarkers.

• Prof. Dr. J. Polivka, Faculty of Medicine in Pilsen, Charles University in Prague, Czech Republic. Stroke care in West Bohemia – personalised medicine approach.

• Prof. Dr. M. Evsevyeva, Stavropol State Medical University, Stavropol, Russia. Heredity and vascular endothelium: focus on young age.

• Prof. Dr. T. Kezeli, State University, Tbilisi, Georgia. Effect of calcitonin gene-related peptide antagonist on the mortality by nitrate induced tolerance rats with acute myocardial infarction.

• B.Sc. D. Cherepakhin and Prof. Dr. S. Suchkov, I.M. Sechenov First Moscow State Medical University, Moscow, Russia. Diagnostic of large vessel aneurysms as applicable to PPPM.


Closing remarks

Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

• Coincidence of cardiovascular disease and breast cancer in females: multi-modal strategies by predictive, preventive and personalised medicine. Golubnitschaja O1,2, Costigliola V2, Iso H2,3, 1Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany, 2European Association for Predictive, Preventive and Personalised Medicine, Brussels, Belgium, 3Osaka University Graduate School of Medicine, Osaka, Japan

• Significant gender-related differences in CVD have been recognised only recently: deficits in female healthcare. Golubnitschaja O, Molecular Diagnostics, Radiological Clinic, Medical Faculty, Friedrich-Wilhelms-University of Bonn, Germany

• Study of the digital model of self-regulation system of the heart. Gorbach AO1,2, Bubnov RV1,2, 1Ukrainian Academy of Informatics, Ukraine,2 Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine

• Gold nanoparticles: challenge of PPPM for heart failure treatment and drug delivery. Spivak MYa1, Bubnov RV1*, Yemets IM2, Lazarenko LM, Timoshok NO, Ulberg ZR, Zabolotny Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, 2Scientific-Practical Centre of Pediatric Cardiology and Cardiac Health of Ukraine, Kyiv, 3Ovcharenko Institute of Biocolloidal Chemistry, National Academy of Sciences of Ukraine, Kyiv, Ukraine
• Screening of vascular pathologies – evidence-based monitoring of prevention efficiency. Lushchyk UB, Novytskyy VV, Babii IP, Riabets LS, Kolomiychuk OP, Legka II, 1Research Center Veritas, Kyiv, Ukraine, 2Clinic Victoria Veritas, Kyiv, Ukraine, 3Center for Innovative Medical Technologies Veritas IT Med, Kyiv, Ukraine, 4Institute for Mathematics of NAS of Ukraine, Kyiv, Ukraine

• The problem of utilization (detoxification) unsymmetrical dimethylhydrazine. Challenge for synthesis of mildronate and its structure analogues. Voloshchuk VG, Yagupolskyi YuL, Tanchuk YuV, Boyko VM, Bubnov RV, 1Institute of Bioorganic Chemistry and Petrochemistry of NAS of Ukraine, 2Clinical hospital “Pheophania” of State Affairs Department, Ukraine

Creation of integrative projects and partnerships: follow-up meeting
Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 - 13:00

Specialised Session
Neurodegenerative and Mental Disorders
Hall B, 13:30 – 16:00

Chairmen: Dr. S. Mandel, Technion, Haifa, Israel
Prof. Dr. F. Paul, NeuroCure, Charité University Medicine Berlin, Germany

Speakers:
• Dr. A. D. Korczyn, Tel-Aviv University Medical School, Israel. The use of biomarker for prediction and prevention of Alzheimer’s and Parkinsons’s diseases: new perspectives.

• Prof. Dr. K. Richter, Clinic for Psychiatry and Psychotherapy, Georg Simon Ohm Technical University for applied sciences, Nuremberg, Germany, Medical Faculty, University Goce Delcev, Stip, Macedonia, FYROM. Building a public health network for prevention of suicides in Macedonia in accordance to the German model – „nuernberg alliance against depression”- “Macedonian alliance against depression”- MAAD.

• Prof. Dr. H. J. Grabe, Department of Psychiatry and Psychotherapy, Greifswald, Germany. Personalized Medicine in common mental disorders.

• Dr. U. Lushchyk, Research Center Veritas, Kyiv, Ukraine. Psycho-neurological patient cohort: personalized algorithms for treatment and rehabilitation.

• Prof. Dr. A. Tasker, University of Prince Edward Island, Canada. From bedside to bench: the need for clinically-relevant animal models of disease development.

• Prof. Dr. I. Gozes, The Adams Super Center for Brain Studies, Sackler Faculty of Medicine, Tel Aviv University, Israel. Preventive, personalized medicine at the level of key regulatory proteins: Updates on activity-dependent neuroprotective protein (ADNP) as a case study.
• Dr. G. Tsangaris, Proteomics Research Unit, Center of Basic Research II, Biomedical research Foundation of the Academy of Athens, Greece. Serum amyloid-p (SAP), a potential biomarker for Down syndrome fetuses prevention in maternal plasma.

• Dr. E. Younesi, Department of Bioinformatics, Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Sankt Augustin, Germany. NDD applied bioinformatics: from integrative disease modelling to predictive, preventive, personalized and participatory (P4) medicine.

• Closing remarks: Dr. S. Mandel and Dr. F. Paul. EPMA Strategies in creation of the session relevant projects.

Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

• Innovative strategies for prediction and targeted prevention of glaucoma in healthy vasospastic individuals: context of neurodegenerative pathologies. Yeghiazaryan K1, Flammer J2, Golubnitschaja O11, 1Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany, 2Department of Ophthalmology, University Hospital Basel, Switzerland

• Monitoring brain functioning with evident based IT-technologies with feedback control. Lushchyk UB1, Novytskyy VV1, Babii IP2, Lushchyk NG2, Babyuk OV2, Kovpak AO3, Legka LI3, 1Research Center Veritas, Kyiv, Ukraine, 2The Clinic of Healthy Vessels, Kyiv, Ukraine, 3Center for Innovative Medical Technologies Veritas IT Med, Kyiv, Ukraine

Creation of integrative projects and partnerships: follow-up meeting

Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 - 13:00

Specialised Session
Healthcare Economy, Standardisation and Ethics
Hall B, 16:30 – 18:30

Chairmen: Dr. K. Krapfenbauer, University of Vienna, Austria
Prof. Dr. T. Rukhadze, University of Tbilisi, Georgia
Dr. M. Langanke, University of Greifswald, Germany

Speakers:
• Dr. K. Krapfenbauer, University of Vienna, Austria. Introductory Chapter.
• Dr. K. Krapfenbauer, University of Vienna, Austria. Economic and technical aspects from biomarker identification to companion diagnostic - co development.
• Dr. A. Karilio-Arkas, President Ayurveda Russia-India Association, Moscow. The economic effect of applying Ayurveda in countries health care.
• Dr. M. Kapalla and Dr. J. Kubaň, Comenius University of Bratislava, Slovakia. How to estimate health-related costs: Economic aspect of healthy lifestyle and its importance for PPPM.
• Dr. M. Langanke and Dr. T. Fischer, Ernst-Moritz-Arndt-University of Greifswald, Germany. Translation of individualized medicine into clinics and the discourse of “hypothetical ethics.”
• Dr. I. Volchek, Discovery Med Ltd, St. Petersburg, Russia, ResearchDx, Pacific Diagnostic Clinical Laboratory, Irvine, CA, USA. Business analysis and market potential of drug screening technology for preventive and personalized therapy.
• Prof. Dr. T. Rukhadze, University of Tbilisi, Georgia. Georgian national palliative care strategic plan—achievements, challenges and perspectives in implementation palliative care in Georgia.
• Prof. Dr. D. Thurnher, University of Vienna, Austria. Ethical aspects of PPPM.

Closing remarks

Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

• Corporate medicine is usurping the doctor-patient relationship in America. Andrews RJ, NASA, USA
• PPPM health care - United States style: “Political, Profitable, and Profligate Medicine”. Andrews RJ, NASA, USA

Creation of integrative projects and partnerships: follow-up meeting

Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 - 13:00

Specialised Session

PPPM in Dentistry and Oral Diseases

Hall C, 9:30 – 12:30

Chairmen:  
Prof. Dr. M.S. Mozaffari, Georgia Regents University, Augusta, Georgia, USA.  
Prof. Dr. A.A. Kunin, Voronezh N.N. Burdenko State Medical Academy, Dentistry Department, Voronezh, Russia  
Prof. Dr. C. Cafiero, University of Naples, Italy  
Prof. Dr. M. Saag, University of Tartu, Estonia
Speakers:

- Prof. Dr. M.S. Mozaffari, Department of Oral Biology, College of Dental Medicine, Georgia Regents University, Augusta, Georgia, USA. **Introductory Chapter.**
- Prof. Dr. C. Cafiero, University of Naples, Italy. **Predictive, preventive, personalised, participatory periodontology and implantology: the “5Ps” to approach the future.**
- Prof. Dr. A.A. Kunin, Prof. Dr. I. Belenova, Dr. N. Moiseeva, Voronezh N.N. Burdenko State Medical Academy, Dentistry Department, Voronezh, Russia. **DPPPD related prioritized national projects:** Overview.
- Prof. Dr. M.S. Mozaffari, Department of Oral Biology, College of Dental Medicine, Georgia Regents University, Augusta, Georgia, USA. **GADD153 as a novel molecular fingerprint for Sjögren’s syndrome.**
- Prof. Dr. M. Saag, and Dr. J. Olak, University of Tartu, Estonia. **Impact of mothers’ health attitudes on dental health of their children.**
- Prof. Dr. L. Orekhova, Therapeutic Dentistry Department of SSMU, City Periodontology Center “PAKS”, St.Petersburg, Russia. **Psychological aspects of the development of individual programs to prevent periodontal diseases.**
- Dr. A. Barmasheva, City Periodontal Center “PAKS”, St. Petersburg, Russia. **Requirement for prevention of periodontitis in patients with metabolic syndrome.**
- Dr. V. Zagnat, Prof. Okushko V., Dr. V. Riahtcev, TSU named after T.G. Shevchenko, Scientific Research Laboratory “STOMO”, Tiraspol, Moldova. **Realization of the principles of the phenotypic prediction in the child caries prevention.**
- Dr. B. Baban, College of Dental Medicine/ School of Medicine, Georgia Regents University, Augusta, Georgia, USA. **Programmed death-1in cancer stem cells may serve as a novel immunotherapy marker.**
- Prof. Dr. J. Kzhyshkowska, Medical Faculty Mannheim, Ruprecht-Karls University of Heidelberg, Mannheim, Germany. **Novel biomarkers of hidden inflammation and implantation.**
- Prof. Dr. B.R. Shumilovich, Voronezh N.N. Burdenko State Medical Academy, Dentistry Department, Voronezh, Russia. **Direct composite veneers for anterior teeth: prevention of aesthetic deformation.**
- Dr. D. A. Kunin, Voronezh N.N. Burdenko State Medical Academy, Dentistry Department, Voronezh, Russia. **Fundamental basis of patient-specific caries prevention.**

**Closing remarks**

*Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”*

- **Dental / Oral health: EPMA recommendations for innovative strategies.** Golubnitschaja O and Costigliola V, European Association for Predictive, Preventive and Personalised Medicine, Brussels, Belgium
- **GADD153 as a novel molecular fingerprint for Sjögren’s syndrome.** Mozaffari MS, Liu JY, Abdelsayed R, Baban B, Department of Oral Biology, College of Dental Medicine, Georgia Regents University, Augusta, Georgia, USA
Index of oral health literacy as the instrument for development of personalized prevention programs of stomatologic diseases. Alyamovskiy V, Duzh A, Sokolova O, Krasnoyarsk State Medical University named after Prof. V.F. Voino-Yasenetsky, Russia

Perspectives of personalized immunomodulation in dentistry. Gratchev A, Kzhyskowska J, Medical Faculty Mannheim, Ruprecht-Karls University of Heidelberg, Mannheim, Germany

Evaluating the effectiveness of structural and metabolic tooth enamel reparation by magnesium-calcium remineralizing complex. Kunin AA¹, Belenova IA¹, Kupets T², Voronezh N.N. Burdenko State Medical Academy, Therapeutic Dentistry Department, Voronezh, Russia, DRC-group, Moscow, Russian-Switzerland company

A novel approach for detection of primary tooth caries based on the light influence foundation. Kunin AA¹, Moiseeva NS², Voronezh N.N. Burdenko State Medical Academy, Therapeutic Dentistry Department, Voronezh, Russia

Innovative aspects of tooth ultrastructure and ultra-chemistry: Unraveling of caries mechanisms development prevention strategies. Kunin AA, Belenova IA, Voronezh N.N. Burdenko State Medical Academy, Therapeutic Dentistry Department, Voronezh, Russia

Probiotics and Oral-Periodontal Health. Haytac MC¹, Kunin AA², Belenova IA², Cukurova University, Faculty of Dentistry, Turkey, Voronezh N.N. Burdenko State Medical Academy, Therapeutic Dentistry Department, Voronezh, Russia

Target approach for prevention activities in dental service of closed government systems. Ukrainian concept. Borkowski DS, Zhuravel VV, Bubnov RV, Clinical hospital “Pheophania”, Kyiv, Ukraine

Creation of integrative projects and partnerships: follow-up meeting
Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 -13:00

Specialised Session
Laboratory Medicine and Biobanking
Hall C, 13:30 – 14:30

Chairmen: Dr. I. Watson, President, European Federation of Clinical Chemistry & Laboratory Medicine, Liverpool, UK
Dr. M. Kapalla, Comenius University of Bratislava, Slovakia
Prof. Dr. H.-P. Deigner, ESBB, Furtwangen University, Fraunhofer Institute IZI Leipzig, Germany
Speakers:

- Dr. I. Watson, European Federation of Clinical Chemistry & Laboratory Medicine, Liverpool, UK. Integrating laboratory medicine with the patient.
- Prof. Dr. H.-P. Deigner, European, Middle Eastern and African Society for Biopreservation and Biobanking (ESBB). Challenges in biobanking in personalized medicine – a biobank society’s view.
- Dr. S. Hagan, Glasgow Caledonian University, Glasgow, United Kingdom. Analysis of tear fluid proteins: use of multiplex assays in profiling biomarkers of dry eye disease.
- Dr. K. Akhmedilova and Prof. Dr. S. Suchkov, I.M. Sechenov First Moscow State Medical University (FMSMU), Moscow, Russia. Associative correlation between clinical manifestations of PICIS and CRID: modern trends in the pre-early diagnostics.
- Prof. M. Spivak, Zabolotny Institute of microbiology and virology NAS of Ukraine, Kyiv, Ukraine. The topic related national projects: overview.

Closing remarks

Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

- The central role of laboratory medicine as the integrating element in healthcare services. Golubnitschaja O¹, Watson ID² and Costigliola V¹, ¹European Association of Predictive, Preventive and Personalised Medicine, ²European Federation of Clinical Chemistry and Laboratory Medicine.
- Perspectives of epidemiological control of the MRSA subpopulations in hospital patients with sepsis via molecular detection, genetic analysis and following typing of methicillin resistance-carrying mobile genetic elements SCCmec in Ukraine. Moshynets OV¹, Rymar SU¹, Liutko OB², Oserjanskaja NM², Kolov GB², Kisyl NP³, Bubnov RV², Boretska M⁴, Irodov DM¹, ¹Institute of Molecular Biology and Genetics of NAS, ²Institute of Traumatology and Orthopaedics of the NAMS, ³National Children Specialized Hospital “OCHMATDYT”, ⁴Zabolotny Institute of Microbiology and Virology of NAS of Ukraine, Kyiv, Ukraine.
- Antimicrobial polycarbonates for biomedical applications. Rogalsky SP¹, Moshynets OV², Lyoshina LG¹, Tarasyuk OP¹, ¹Institute of Bioorganic Chemistry and Petrochemistry of NAS of Ukraine, ²Institute of Molecular Biology and Genetics of NAS of Ukraine, Kyiv, Ukraine
- Effect of Lactobacilli probiotic strains on IFN-, IL-2 and TNF-α production in the peripheral blood cells culture of clinically healthy donors. Mokrozub VV, Babenko LP, Sokolvyyak OYu, Lazarenko LM, Spivak MYa, Zabolotny DK. Institute of microbiology and virology, National Academy of Sciences of Ukraine, Kyiv, Ukraine.
• The perspectives of biomedical application of the nanoceria. Zholobak NM, Sherbakov AB, Babenko LS, Bogorad-Kobelska OS, Bubnov RV, Spivak MY, Ivanov VK, Zabolotny DK, Institute of microbiology and virology NAS of Ukraine, Kyiv, Ukraine, Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine, Kurnakov institute of general and inorganic chemistry of Russian Academy of Sciences, Moscow, Russia

• Lactic acid bacteria antibacterial and immunomodulatory properties in norm and intravaginal staphylococcosis. Babenko LP, Mokrozub VV, Sokolvyak OYu, Lazarenko LM, Spivak MY, D.K. Zabolotny Institute of microbiology and virology, National Academy of Sciences of Ukraine, Kyiv, Ukraine

Creation of integrative projects and partnerships: follow-up meeting
Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 -13:00

Specialised Session
Rare Diseases
Hall C, 14:45 – 16:15

Chairmen: Prof. Dr. M. Özgüç, Hacettepe University Faculty of Medicine, Ankara, Turkey
Dr. K. Grosios, uniQure B.V., Amsterdam, The Netherlands

Speakers:
• Prof. Dr. M. Özgüç, Hacettepe University Faculty of Medicine, Ankara, Turkey. Rare disease and landscape in healthcare: Overview.
• Prof. Dr. M. J. Molnar, Institute of Genomic Medicine and Rare Disorders, Semmelweis University, Budapest, Hungary. Predicting valproate toxicity in patients with mitochondrial disorders.
• Dr. P. Ostatov and Prof. Dr. M. Kralickova, Faculty of Medicine in Pilsen, Charles University in Prague, Pilsen, Czech Republic. Hereditary cerebellar degeneration and stem-cell based therapy.
• Dr. Z. Bogatyreva and Prof. Dr. S. Suchkov, Municipal Clinical Hospital №81, Moscow, Russia, I.M. Sechenov First MMSU, Moscow, Russia. Antithyroid autoantibody population as a source of antibody specificity and functionality: clinical significance of the phenomenon of the serological orchestra in monitoring of patients with Graves’ disease.
• Prof. Dr. V. Larionova, Turner’s Scientific and Research Institute for Children’s Orthopedics, St. Petersburg, Russia. Genetic polymorphisms of collagen type I α1 chain (COL1A1) gene increase the frequency of low bone mineral density in the subgroup of children with juvenile idiopathic arthritis.
• Dr. K. Grosios, uniQure B.V., Amsterdam, The Netherlands. Gene therapy for rare diseases – the case for Acute Intermittent Porphyria.

Closing remarks
Creation of integrative projects and partnerships: follow-up meeting
Hotel “Thon City Centre”, Hall “Bergen”, Sept. 21st, 9:00 -13:00
Specialised Session
Food, Health, Wellbeing, Gender Medicine
Hall C, 16:30 – 18:30

Chairmen:
Prof. Dr. G. Trovato, Catania University, Italy
Dr. N. Shapira, Institute for Nutrition Research, Petah Tikvah, Israel
Prof. Dr. H. Everaus, University of Tartu, Estonia
Prof. Dr. O. Safonicheva, First Moscow State Medical University by I.M. Sechenov, Moscow, Russia

Speakers:
• Dr. J. Kinkorová and Prof. Dr. O. Topolčan (joint presentation), Technology Centre Academy of Sciences, Czech Republic. Knowledge and innovation communities, new potential for biomedical research in Europe.
• Dr. N. Shapira, Institute for Nutrition Research, Rabin Medical Center (Beilinson Hospital), Petah Tikvah, Israel. Diet vs. mental ageing: Gender nutrition vs. women’s specific risk within the PPPM context.
• Dr. A. Solís Herrera, Human Photosynthesis Study Center, Aguascalientes, México. The role of human photosynthesis in the predictive, preventive and personalized medicine.
• Prof. Dr. J. Ionescu, Spezialklinik Neukirchen, Germany and Donau University Krems, Austria. New strategies to slow down the photoaging of the human skin.
• Prof. Dr. H. Everaus, University of Tartu, Tartu University Hospital, Estonia. Closer to personalized approach through accepting the gender differences in medicine.
• Prof. Dr. O. Safonicheva, First Moscow State Medical University by I.M. Sechenov, Moscow, Russia. The role of stress in implementation of Chronic Fatigue Syndrome. Integrative approach to correction of postural, cognitive disorders and cerebral metabolism.
• Prof. Dr. I. Marton, Quintess, Budapest, Hungary. Feasibility of personalized primary prevention (PPP) in osteoporotic fracture management.
• Prof. Dr. M. Kralickova, Faculty of Medicine in Plzen, Charles University in Prague, Plzen, Czech Republic. Personalized treatment of infertility – way to increase treatment efficiency.
• Prof. Dr. V. Zeman and Prof. Dr. O. Topolčan, Medical Faculty Pilsen and Faculty Hospital Pilsen, Charles University Prague, Technology Centre Academy of Sciences, Czech Republic. Optimization of recovery, regeneration and rehabilitation.
• Dr. R. Bubnov. Clinical Hospital “Pheophania“ of State Affairs Department, Kyiv, Ukraine. The topic related national projects: overview.

Closing remarks
Topic related abstracts to be included into the follow-up meeting “Creation of integrative projects and partnerships”

- Vision of the first EPMA center for predictive, preventive and personalized medicine in Europe. Kapalla M, Kubáň J, Costigliola V, Golubnitschaja O, European Association for Predictive, Preventive and Personalised Medicine (EPMA), Brussels, Belgium

- Simultaneous systematic analysis approach: Changing the paradigm. Marcus-Kalish M, Tel Aviv University, Israel

- Paradigm change to cost-effective predictive and preventive medicine: Individual profiling of healthy vasospastic individuals for targeted prevention as the cost-effective personalised medicine. Golubnitschaja O, Yeghiazaryan K, Flammer J, 1Department of Radiology, Rheinische Friedrich-Wilhelms-University of Bonn, Germany, 2Department of Ophthalmology, University Hospital Basel, Switzerland

- Suggestions for a sustainable medical quality-centered approach within a predictive, preventive and personalized medicine. The experience of a diagnosis and therapy units: the promotion of alternatives to conventional hospitalization in an era of financial constraint. Trovato GM, University of Catania, Italy

- Training in clinical research within individual health organizations. A strategic tool devised for enhancing predictive, preventive and personalized medicine within a comprehensive participative framework. Trovato GM, University of Catania, Italy

- Early health education as preventive strategy against pre menstrual syndrome among Indian teenagers. Ather A, Traditional System of Medicine “Medizin Park Ruhr”, Castrop Rauxel, Germany

- Analysis of tear fluid proteins: use of multiplex assays in profiling biomarkers of dry eye disease. Hagan S, Tomlinson A, Madden L, Clark A, Oliver KM, 1Vision Sciences, Glasgow Caledonian University, Glasgow, United Kingdom, 2Biological and Biomedical Sciences, Glasgow Caledonian University, Glasgow, United Kingdom

- Personalized anti-inflammatory diets for allergic and skin disorders. Ionescu JG, Neukirchen, Germany, Research Department of the Spezialklinik Neukirchen, Germany. Donau-University Krems, Austria

- Vitamin C and substituted phenols are specifically killing cancer cells. Ionescu JG, Neukirchen, Germany, Research Department of the Spezialklinik Neukirchen, Germany. Donau-University Krems, Austria

- Latent trigger point platelets rich plasma (PRP) injection for chronic myofascial pain treatment. Bubnov RV, Fodor D, 1The Centre of ultrasound diagnostics and interventional sonography, Clinical hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine, 2Second Internal Medicine Department, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania
• Missing of intervention in children orthopedics - benefits or losses? Presentation of pilot project results. Pilecki Z¹, Pilecki G¹, Bubnov R², Kutaj-Wąsikowska H³, ¹Department of Pediatric Orthopedics & Traumatology, Chorzów, Poland, ²National Representative of EPMA in Ukraine, ³National Center For Quality Assessment In Healthcare, Kraków, Poland

• Personalized monotherapy vs protocol therapy complex for frozen shoulder. Comparative study. Bubnov RV¹, Strokan AM², Logvinchuk PV³, Aleksieieva TS³, ¹Ultrasound, ²Anesthesiology, ³Neurology Clinical Hospital “Pheophania” of State Affairs Department, Kyiv, Ukraine

• Ultrasonography of herniated lumbar discs for screening programs in elderly children and teenagers. Abdullaiev RYa¹, Bubnov RV², Mammadov IG¹, Abdullaiev RR³, ¹Kharkiv Medical Academy of Postgraduate Education, Kharkiv, Ukraine, ²Clinical Hospital “Pheophania“ of State Affairs Department, Kyiv, Ukraine, ³Kharkiv National Medical University, Kharkiv, Ukraine

Creation of integrative projects and partnerships: follow-up meeting
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Sept. 21st, 9:00 - 13:00

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