

Proceedings ELBA NW Nanoforum XLI. Part-I: Topics - Emerging Lines of Collaborative Russians/Italians Research

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Part-1 Topics: Emerging Lines of Collaborative Russians/Italians Research

The Fondazione EL.B.A. (EL.ELECTRONICS B.IOTECHNOLOGY A.DVANCED) Nicolini was created by an initiative of Professor Claudio Nicolini member of the National Science and Technology Council and called from USA as Eminent Scientist to the Chair of Biophysics at the University of Genova, as an outgrowth of the successful intergovernmental agreement, called “Elba Project”, on bioelectronics and biomolecular engineering signed on December 7, 1990 by the Italian Minister of Research and University Antonio Ruberti and by the Vice-Minister for Science and Technology of the Soviet Union Ivan Bortnik, and later extended to the European Commission as observer evolving into a long-range research project with multidisciplinary activities. Fondazione EL.B.A. (Electronics Biotechnology Advanced) Nicolini has been born in 1993 with participation of both governments (Europe and Soviet Union) and privates (USA Institutions) and has brought to success the initiative on Bioelectronics with the required critical mass at the world scale through (a) the support of both the multinational companies organized within Polo Nazionale Bioelettronica, Scientific Technological Park of the Elba Island and CIREF-Industrial Consortium (Sorin, Fiat, Montedison, STM, ABB, Elsag-Bailey) and (b) the Biochip Project (1) initiated by USSR President Gorbachev through Velikov-Emelyanov at Russian Academy of Sciences and Italian Prime Minister Craxi through Nicolini at Genova University. The Nanoforum is now at its XLIth ELBA edition having as objective (www.fondazioneelba-nicolini.org) the exploration of present stage of Collaborative Lines of Russians (RAS and MSU)/Italians (FEN NWI and LBN UNIGE) Research, having focus in Structural and Functional Proteomics for Cancer and for Molecular Bioelectronics. This time the sponsorship has been extended extended for the first time to Nanoworld (NW) Journal and Conference both located in USA, respectively in Santa Clara and Boston.

The Joint Russia-Italy Organizing Committee was chaired within the framework of the Joint Master Programme in Nanobiotechnology between Moscow State Lomonosov University and Genova University by Michail Eldarov PhD, Russian Academy of Science Biotechnology Institute and Eugenia Pechkova Tenured Assistant Professor at Genova University Medical School and NWJ Associate Editor of Nanobiotechnology.

Program

14:00-14:20 Exploration of Collaborative Lines of Russians/Italians Research in Structural and Functional Proteomics for Cancer and Molecular Bioelectronics

Prof. Claudio Nicolini, President Fondazione ELBA Nicolini, Honoris Causa Professor Nanobiotechnology Moscow State University and Foreign Member Russian Academy of Sciences, LBN Genova University and NanoWorld Journal and Conference, USA

14:20-15:30 From Biotechnology to Structural Nanoproteomics for Cancer and Molecular Bioelectronics

Prof. Eugenia Peshkova, Assistant Professor of Biochemistry LBN, Genova University, Italy
Prof. Michail Eldarov, Russian Academy Sciences Research Center, Moscow, Russian Federation
Dr. Alexander Zhgun, Research Center of Biotechnology, RAS, Russian Federation
Dr. Schennikova, Research Center of Biotechnology, RAS, Russian Federation

15:30-16:20 From Molecular Dynamics and Monte Carlo Simulation to Protein Structure at Atomic Scale for Cancer and for Molecular Bioelectronics

Dr. Marine' Bozdagaynan, Fondazione ELBA Nicolini, Pradalunga, Bergamo, Italy
Dr. Filipp Orekhov, Fondazione ELBA Nicolini, Pradalunga, Bergamo, Italy

Dr. Andrey A. Toropov, Istituto di Ricerche Farmacologiche “Mario Negri”, 20156 Milano, Italy

16:20-17:00 New Avenues Based on Marine Actinobacterial Clade Rhodopsines, Metallophthalocyanines and NanoTransporters

Dr. Serafima Guseva, Moscow State University, Russian Federation

Dr. Ekaterina Kholina, Moscow State University, Russian Federation

Dr. Anastasia Tsvetkova, Moscow State University, Russian Federation

17:00-17:30 QMC Nanoconductimetry, Mass Spectrometry and Anodic Porous Alumina Using SNAP Arrays of Genes for Cancer Control

Prof. Claudio Nicolini, President Fondazione ELBA Nicolini, Honoris Causa Professor Nanobiotechnology Moscow State University and Foreign Member Russian Academy of Sciences, LBN Genova University and NanoWorld Journal and Conference, USA

17:30-18:00 Conclusions on Possible Integration of Participants into Future ERC-EU and R01-USA Grants Applications by Fondazione EL.B.A. Nicolini

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