



## Preliminary

### Invited Lecture

1. [Energy theory of carcinogenesis. Why and how cancer and metastases occur](#)  
Victor Ovsyannikov, Ioffe Physical-Technical Institute
2. [Communication function of cell bioluminescence](#)  
A.V. Budagovsky<sup>1,2</sup>, O.N. Budagovskaya<sup>1,2</sup>, and I.A. Budagovsky<sup>3</sup> <sup>1</sup>Michurinsk State Agrarian University, Michurinsk, Tambov Region, Russia <sup>2</sup>Michurin Federal Scientific Center, Michurinsk, Tambov Region, Russia <sup>3</sup>Lebedev Physical Institute, Moscow, Russia
3. [Open complex collective modes and critical dynamics of cells in oncological transformation and microgravity conditions](#)  
Oleg B. Naimark; Institute of Continuous Media Mechanics UB RAS, Perm, Russia
4. [Peculiarities of the study of distant non-chemical interactions in microorganisms](#)  
Nikolaev Yury A., El-Registan Galina I. The Federal Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences, Moscow, Russia
5. [The role of the electronically excited state of water systems in processes related to biophotonics](#)  
Voeikov Vladimir, Buravleva Ekaterina. Lomonosov Moscow State University, Faculty of Biology, Moscow, Russia
6. [Charge Transfer in DNA and Biophotonics](#)  
Victor D. Lakhno, Institute of Mathematical Problems of Biology, Russian Academy of Sciences, Russia
7. [Informational effect of ultra-weak radiation of biological systems on complementary biological systems](#)  
Yuriy Gorovoy<sup>1</sup>, Nikita V. Penkov<sup>2</sup>; <sup>1</sup>Yaroslavl State Technical University, Russia, <sup>2</sup>Institute of Cell Biophysics of the Russian Academy of Sciences, Russia
8. [On possible registration of mitogenetic effect in A.M. Kuzin group experiments](#)  
Sergey N. Mayburov; Lebedev institute of physics, Moscow, Russia.

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### Internet Invited Lecture

1. [Delayed Luminescence in Algae for toxicological tests](#)  
Julya Tavares, Cristiano M Gallep
2. [Six decades of chemiluminescence studies: A brief retrospective view to the very beginning and the subsequent developments](#)  
Galina F. Fedorova, Valerii A. Menshov, Vladimir V. Naumov, Aleksei V. Trofimov\*, Yurii B. Tsaplev, Timur L. Veprintsev, Olga I. Yablonskaya, Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Moscow 119334, Russia
3. [Biological autoluminescence \(ultra-weak photon emission\): Involved in biological regulatory processes?](#)  
Felix Scholkmann<sup>1,2,3</sup> <sup>1</sup>Neurophotonics and Biosignal Processing Research Group, Biomedical Optics Research Laboratory, Department of Neonatology, University Hospital Zurich, University of Zurich, 8091 Zurich, Switzerland <sup>1</sup> Institute of Complementary and Integrative Medicine, University of Bern, 3012 Bern, Switzerland <sup>3</sup> Neuroscience Center Zurich, University of Zurich and ETH Zurich, 8057 Zurich, Switzerland
4. [Using fluorescence analysis and chemiluminescence to determine the causes of increased sensitivity of cancer cells to blue light](#)  
Vitaly Yu. Plavskii, Olga N. Dudinova, Ludmila G. Plavskaya, Antonina I. Tretyakova, Aliaksandr V. Mikulich, Raman K. Nahorny, Andrei N. Sobchuk, Tatsiana S. Ananich, Alexei D. Svehko, Sergey V. Yakimchuk, Ihar A. Leusenka; Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus
5. [Ultra-weak electromagnetic hormesis as the baseline of athermal effects in biota](#)  
Pierre Madl Dep. of Biosciences & Medical Biology (University of Salzburg, Austria) in cooperation with Edge Institute

1. [Mitogenetic effect: methods, critique and anti-critique](#)

Elena V. Naumova<sup>1</sup>, Ilya V. Volodyaev<sup>2</sup>; <sup>1</sup>Rzhanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia; <sup>2</sup>Faculty of Biology, Moscow State University, Moscow, Russia

2. [A.G. Gurwitsch and G.M. Frank, pioneers of research on ultraweak luminescence of biological systems: touches to scientific biographies and results of work in the field of mitogenetic radiation](#)

Ilya V. Volodyaev<sup>1</sup>, Elena V. Naumova<sup>2</sup> <sup>1</sup>Faculty of Biology, Moscow State University, Moscow, Russia <sup>2</sup>Rzhanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia

3. [Living cell as a source of photogeneration](#)

Galia N. Surkenova; Institute of Cell Biophysics RAS, Pushchino, Russia

## Zoom Oral Report

1. [Registration of fluorescence of endogenous porphyrins and flavins in living cells and their extracts](#)

Vitaly Yu. Plavskii, Andrei N. Sobchuk, Aliaksandr V. Mikulich, Olga N. Dudinova, Ludmila G. Plavskaya, Antonina I. Tretyakova, Raman K. Nahorny, Tatsiana S. Ananich, Alexei D. Svechko, Sergey V. Yakimchuk, Ihar A. Leusenka, B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus

2. [Unique algorithm, data processing and physical laws for the evaluation of embryo photon emission and viability](#)

József Bódis<sup>1,4,7</sup>, József Berke<sup>1,2</sup>, Zoltán Bognár<sup>1,3,4</sup>, István Gulyás<sup>1</sup>, Dávid Berke<sup>5</sup>, Attila Enyedi<sup>2</sup>, Veronika Kozma-Bognár<sup>2,6</sup>, Péter Mauchart<sup>1,7</sup>, Bernadett Nagy\*<sup>1,4,7</sup>, Ákos Várnagy<sup>1,4,7</sup>, Kálmán Kovács<sup>1,4,7</sup>; <sup>1</sup>National Laboratory on Human Reproduction, University of Pécs, Pécs, Hungary; <sup>2</sup>Dennis Gabor University, Department of Drone Technology and Image Processing, Budapest, Hungary; <sup>3</sup>Department of Medical Biology and Central Electron Microscope Laboratory, Medical School, University of Pécs, Pécs, Hungary; <sup>4</sup>HUN-REN-PTE Human Reproduction Scientific Research Group, Pécs, Hungary; <sup>5</sup>John von Neumann Computer Society, Multimedia in Education Section, Budapest, Hungary; <sup>6</sup>Dennis Gabor University, Rector's cabinet, Budapest, Hungary <sup>7</sup>Department of Obstetrics and Gynecology, Medical Scholl, University of Pécs, Pécs, Hungary

3. [Optical method of localization of acupuncture points and theoretical concepts of the role of photons in neural activity.](#)

Leonid G. Navrotsky<sup>1,2</sup>, Liliya I. Lisitsyna<sup>2</sup>; <sup>1</sup>Institute of Laser Physics SB RAS, Novosibirsk, Russia; <sup>2</sup>Novosibirsk State Technical University, Novosibirsk Russia

4. [A New Model of DNA-Water Interaction: Dynamic Chromatin Self-Organization as the Basis of Cellular Logic](#)

Ivan V. Savelev<sup>1</sup>, Michael M. Rempel<sup>1</sup>, Alexandr V. Vikhorev<sup>1</sup>, Oksana O. Polesskaya<sup>1</sup>, Richard Alan Miller<sup>1</sup>, Alexandr V. Vetcher<sup>2</sup> and Max V. Myakishev-Rempel<sup>1</sup> <sup>1</sup> DNA Resonance Research Foundation, San Diego, CA, USA, ivan.savelyev23@gmail.com, mikerempel3@gmail.com, vikhall14@gmail.com, opolesskaya@gmail.com, rick@richardalanmiller.com, max@dnaresonance.org <sup>2</sup> Russian Peoples Friendship University & Shishonin Integrative Health Clinic, Moscow, Russia \*Correspondence: MVM, max@dnaresonance.org

5. [Analysis of selected biological objects used in the study of their ultra-weak luminescence \(review\)](#)

Irina I. Kontsevaya Francysk Skaryna Gomel State University, Gomel, Republic of Belarus

## Listeners

1. **Alexey V. Nenashev**

Rzhanov Institute of Semiconductor Physics SB RAS

2. **Харлампий Тирас**

Институт теоретической и экспериментальной биофизики РАН

3. **Нестеров Семён Валерьевич**

НИЦ Курчатовский институт

4. **Eugeny. Ivanivich Demikhov**

Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia

5. **Maira Aristanbekova**  
Center AIDS

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