

# Rostyslav V Bubnov, M.D., Ph.D., LL.B.



Date of birth 22.06.1977, place of birth: Lviv, Ukraine.

Nationality: Ukraine

## Affiliation:

- National Representative in Ukraine of the European Association for Predictive, Preventive and Personalized Medicine (EPMA);
- Medical doctor in Center of ultrasound diagnostics and interventional sonography, Clinical hospital "Pheophania" of Administration of President of Ukraine;
- Researcher in Zabolotny Institute of Microbiology, Virology, National Academy of sciences of Ukraine;
- Associate Editor of The EPMA Journal (Springer/BioMed Central);
- Editor in Chief of the Journal of Musculoskeletal Ultrasound (JMUS);
- Professor in MVClinic, Madrid (Ultrasound-guided Dry Needling course)

03680 Ukraine

Kyiv, Zabolotny str., 21

Clinical hospital "Pheophania"

[rostbubnov@gmail.com](mailto:rostbubnov@gmail.com)

[http://rostbubnov.narod.ru/bubnov\\_eng.html](http://rostbubnov.narod.ru/bubnov_eng.html)



**Publications:** Author and co-author of over 300 paper, including 10 monographs and book chapters, 16 patents, position papers, guidelines like "EPMA Position Paper in Cancer" and number of "highly accessed" articles on Springer / Biomed Central and author of [BioMed Central blog](#)

(<http://scholar.google.com.ua/citations?user=k9YfXKwAAAAJ>)

[https://www.researchgate.net/profile/Rostyslav\\_Bubnov/](https://www.researchgate.net/profile/Rostyslav_Bubnov/)

<http://orcid.org/0000-0003-3148-9884>

<http://www.researcherid.com/rid/E-8395-2013>

<http://www.scopus.com/authid/detail.url?authorId=38360919800>

**Editor and Peer reviewers** of a number of journals

(see <https://publons.com/author/317326/rostyslav-v-bubnov>) and expert evaluator for number of National and international projects.

**Language skills:** English, Polish, Russian and Ukrainian.

## Education:

- 2013 –2016 - LL.B., International Solomon University, law, medical law
- May 2012 Ph.D. thesis "Role of ultrasonography in the regional anesthesia in operations on the lower extremities", Kharkiv Medical Academy of Postgraduate Education;
- 2000-2002 Residency on "Surgery" at Horbachevsky Ternopil State Medical University;
- 1994-2000 M.D., the Medical faculty of Horbachevsky Ternopil State Medical University, specialty "Medicine".

Corresponding member, Professor of Ukrainian Academy of Information (2013,2016)

### **Postgraduate education:**

- 2015, Jul. – Basic Science Course 2015 „Hot topics in experimental GI cancer“, taking place in Erasmus MC (Rotterdam) and Amsterdam MC (Netherlands). The course included state-of-the-art lectures and hands-on training: mouse endoscopy, pathology assessment and intestinal fibroblast isolation, generating 3D gut models in vitro by organoid culturing and imaging; and analysis of bacterial translocation/composition, transepithelial resistance in 2D barrier function models in vitro, and design of animal models.
- 2014, Jul. - Basic Science Course 2014 „Hot topics in experimental GI cancer“, taking place in the Klinikum rechts der Isar, Technical University Munich, Germany. Teaching sessions: „Imaging in mice (MRI, Ultrasonography, Coloscopy, Luciferase Imaging)“; „Isolation of dorsal root ganglia“.
- 2013, Sept. - Teaching course on Electromyography at WFN/EFNS 2013 in Vienna.
- 2013, April - Research Course „Young Investigators Meeting“ at House of European Gastroenterology, Vienna, Austria.
- 2011, Nov. - Postgraduate Course „Advances in Gastro-Intestinal Surgery“ - European Digestive Surgery (EDS), Lublin Poland.
- 2011, Aug - Categorical course „New Ultrasound techniques“ (ultrasound contrasts) at WFUMB 2011, 13th World Congress of the World Federation for Ultrasound in Medicine and Biology in conjunction with 35th joint meeting of the Austrian, German and Swiss Societies for Ultrasound in Medicine (Dreiländertreffen) in conjunction with Euroson 2011, 23rd Congress of EFSUMB in Vienna, Austria.
- 2011, Sept. - Teaching courses on clinical neurophysiology (Nerve conduction study, Electromyography), neuromuscular diseases, autonomic nerve system diagnostic and disorders at 15th Congress of the European Federation of Neurological Societies that was held in Budapest, Hungary.
- 2008, Jun. - Training Workshop "Endosonography, puncture interventions in endosonography", Kyiv, Ukraine.
- 2008 - course of scholarship „Fine needle biopsy of thyroid gland under ultrasound guidance“ at the Institute of Endocrinology and Metabolism, National Academy of Medical sciences of Ukraine.
- 2005 - residency (course of specialization) „Ultrasound diagnostics“ at Shupyk Kyiv National Medical Academy of Postgraduate Education.
- 2004 - course of scholarship „Homeopathy and computer electropuncture diagnosis and treatment“ at Danylo Halytsky Lviv National Medical University.
- 2003 - course of specialization „Manual Reflexology“ at Danylo Halytsky Lviv National Medical University.
- 2002 - residency (course of specialization) „Endoscopy“ at Danylo Halytsky Lviv National Medical University.
- 2002 - residency, training courses in diagnostic and therapeutic endoscopy in Rivne Regional Clinical Diagnostic Center.
- 2000-2002 residency, Rivne Regional Hospital, specialty `Surgery`.

### **Positions:**

- Since 2005 - medical doctor in Center of ultrasound diagnostics and interventional sonography, multidisciplinary Clinical hospital “Pheophania” of Administration of President of Ukraine.
- Since 2012 - researcher in Zabolotny Institute of Microbiology, Virology, National Academy of sciences of Ukraine.
- Since 2012 - National Representative in Ukraine of the European Association for Predictive, Preventive and Personalised Medicine (EPMA) and Coordinator of the regional EPMA-BOARD in Ukraine.
- Since October 2013 - Editor in Chief of the Journal of Musculoskeletal Ultrasound (JMUS);
- Since May 2014 - Managing editor of Special Issue in 'Frontiers in Bioscience'
- Since Dec 2014 - Associate Editor of Section `Body Culture and Sports Medicine` of The EPMA Journal (Springer/BioMed Central)
- Since May 2015 - Handling Editor of Special issue `Arthritis & Pain` in `Journal of Arthritis`
- 2000-2003 Medical doctor (surgeon) at Rivne Regional Hospital for disabled veterans.
- 2002-2003 - Medical doctor (endoscopist) at Rivne Regional Hospital for disabled veterans.
- February-March 2005 – Medical doctor at Kyiv City Emergency Medical Services and Disaster Medicine.

## **Awards and Grants:**

- 2013 – V.I.Vernadsky Medal “For impact to the Science”;
- **October 2012 - Winner of President of Ukraine Award for Young scientist;**
- First place at Humboldt Kolleg Young Scientists Competition in Section “Life Sciences” "Mathematics and life sciences: possibilities, interlacements and limits". - report Rostyslav Bubnov "Mathematical Modeling in Modern Ultrasonography";
- Winner (first place) "Highlights of Ukrainian science and education - 2010" in network "Ukrainian Scientists Worldwide" for research, dedicated to interventional neuro-musculo- skeletal sonography, treatment of pain syndromes, ultrasound of neuroimaging;
- Runner up in Category "Innovations in computer aided engineering" on “Mimics Innovation Awards 2011” - report “Integrated application of three-dimensional modeling to study nerves anatomy for regional anesthesia under ultrasound guidance based on the expert segmentation of sonographic images using Mimics software”.
- Invited expert at The International Scientific Association for Probiotics and Prebiotics (ISAPP) 2016 meeting .
- Travel grant for the attendance the 21st WFN World Congress of Neurology in Vienna, Austria, Sept. 21-26.
- Travel grant for the attendance The 16th Congress of the European Federation of Neurological Societies (EFNS) in Stockholm, Sweden, September 8-11, 2012
- Travel grant for the attendance 15th Congress of the European Federation of Neurological Societies, Budapest, Hungary, September 10-13, 2011.
- Travel grant for the attendance United European Gastroenterology Week (UEGW 2011), Stockholm, Sweden, October 22 - 26, 2011.
- Queen Jadwiga Stipend for fellowship at Jagellonian University in Krakow/Poland for 2011 – 2012.
- Participant of SEVENTH FRAMEWORK PROGRAMME grant Marie Curie Actions, People “EU-Ukrainian Mathematicians for Life Sciences” PIRSES-GA-2011-295164.

## **Research interests in medicine:**

RVB has extensive integrated expertise in bio/medical fields and healthcare within concept of Predictive, Preventive and Personalized Medicine. The most valuable scientific contribution has been acknowledged in the fields of radiology, ultrasound, musculoskeletal imaging, trigger points ultrasound visualization in neurology, pain medicine; bioinformatics, animal modeling (liver fibrosis, heart failure, DM, PD, arthritis, cancer models on rats and mice), and mathematical modeling (fractal analysis of radiology images, stochastics); nanomedicine (study of bioeffects of nanoparticles of gold and nanocerium), sonoporation, etc. The special research interest covers issues in radiology, ultrasound guided interventions; gastroenterology; cardiology; nanomedicine; pain, muscle, nerve physiology, trigger points therapy; surgery; integrative medicine; theranostics; drug delivery; immunology; probiotics; animal modeling; ultrasound in biomedical experiment.

## **Research interests in paramedical disciplines, technology and biomedical engineering:**

Research interests in paramedical disciplines has focused on three-dimensional modeling, image processing in visual diagnostics; development of educational models, programs; animal modeling, preclinical imaging; intelligent decision making in medical diagnosis and interventions.

## **Educational Experience:**

Speaker at many congresses and workshops of number of medical societies (EPMA, ISAPP, ISMUS, EFSUMB, WFUMB, WCN, EFNS, ENS, MDS, IASP, UEG, EDS, ITHEA, etc), and participate as an active member.

Lecturer at workshops, regular trainings for radiologists, anesthesiologist, physical therapists “Nerve ultrasonography”, “Myofascial pain” at multidisciplinary meetings: Ultrasound Societies (2010-2013), British-Ukrainian Symposiums (2009, 2010, 2011, 2012), “Ultrasound-guided Dry Needling techniques” course in Madrid at MVclinic.

## Membership:

- EPMA - European Association for Predictive, Preventive and Personalised Medicine
- ERS - European Society of Radiology
- ISMUS - International Society for Musculoskeletal Ultrasound
- ESDO - European Society of Digestive Oncology
- IASP - International Society of Study Pain
- EDS - European Digestive Surgery
- ITHEA - Institute for Information Theories and Applications
- УАФУД - Українська асоціація фахівців ультразвукової діагностики
- СПРО - Санкт-Петербургское радиологическое общество

## Editorial activity

RVB is founder and the Editor in Chief of Journal of Musculoskeletal Ultrasound (JMUS) and associate Editor of `Body Culture and Sports Medicine` Section of EPMA Journal (BioMedCentral, Springer). He is serving as a Member of Editorial Boards and referee in number of journals (<https://publons.com/author/317326/>).

- [Journal of Musculoskeletal Ultrasound \(JMUS\) - Editor-in-Chief](#)
  - [Associate Editor - The EPMA Journal \(Springer/BioMed Central\)](#)
  - [Handling Editor of Special issue `Arthritis & Pain" in `Journal of Arthritis`](#)
  - [World Journal of Hepatology](#)
  - [Special Issue in 'Frontiers in Bioscience'](#)
  - [Pathogenesis \(Elsevier, The Royal College of Pathologists\)](#)
  - [Neurotransmitter](#)
  - [International Journal of Diagnostic Imaging](#)
  - [International Journal of Cardiology and Research \(IJCRR\)](#)
  - [Austin Journal of Radiology](#)
  - [Austin Journal of Invitro Fertilization](#)
- etc.

## FULL LIST OF PUBLICATIONS

### Featured Publications:

#### Books

- Abdullaiev R., Gayko G., Bubnov R., Fodor D., Pilecki Z., Semeniv I., Hrazdira L., Pilecki G.: *ULTRASONOGRAPHY OF THE JOINTS. The Manual.* 01/2013; Kharkiv: Nove slovo., ISBN: 978-966-97317-8-4
- Jozef BENACKA, Luboš HRAZDIRA, Rostyslav BUBNOV, Beat DUBS, Reinhard GRAF, Zbigniew PILECKI, Jarmila SKOTÁKOVÁ: *Compendium of musculoskeletal ultrasound.* 01/2012; první. Trnava, Slovensko: University of Ss. Cyril and Methodius., ISBN: 978-80-8105-414-3
- Abdullaiev R.Y., Mytnyk Z.M., Fedko A.A., Bubnov R.V.: *Ultrasonography in infectious diseases.* 12/2010; Kharkiv: Nove slovo.
- Abdullaiev R.Y., Marchenko V.G., Dzyak L.A., Fedko A.A., Fedak B.S, Bubnov R.V.: *Ultrasonography in neurology.* 09/2010; Kharkiv: Nove slovo.
- Abdullaiev R.Y., Dzyak G.V., Hvyssuk O.M., Dudnyk T.A., Bubnov R.V., Fedko A.A: *Ultrasonography in athrology.* 07/2010; Kharkiv: Nove slovo., ISBN: 978-617-568-025-4
- Abdullaiev R., Lesovoy V., Bubnov R, Vinnyk Y.: *Ultrasonography in oncurology.* 04/2010; Kharkiv: Nove slovo., ISBN: 978-966-2046-79-3

#### Articles

- Highly accessed** Grech G, Zhan X, Yoo B, Bubnov R, Hagan S, Danesi R, Vittadini G, Desiderio DM: EPMA position paper in cancer: current overview and future perspectives. *EPMA Journal* 2015, 6:9.
- Highly accessed** Bubnov RV Evidence-based pain management: is the concept of integrative medicine applicable? [Review] *EPMA J.* 2012 Oct 22;3(1):13.  
Bubnov RV, Spivak MY, Lazarenko LM, Bomba A and Boyko NV: Probiotics and immunity: provisional role for personalized diets and disease prevention *EPMA Journal* 2015, 6:14.
- Highly accessed** Spivak MY, Bubnov RV, Yemets IM, Lazarenko LM, Tymoshok NO, Ulberg ZR: Gold nanoparticles - the theranostic challenge for PPPM: nanocardiology application. *EPMA J.* 2013 Jun 24;4(1):18.
- Highly accessed** Spivak MY, Bubnov RV, Yemets IM, Lazarenko LM, Tymoshok NO, Ulberg ZR: Development and testing of gold nanoparticles for drug delivery and treatment of heart failure: a theranostic potential for PPP cardiology. *EPMA J.* 2013 Jun 24;4(1):20
- Highly accessed** Goncharenko VM, Beniuk VA, Kalenska OV, Demchenko OM, Spivak MY and Bubnov RV: Predictive diagnosis of endometrial hyperplasia and personalized therapeutic strategy in women of fertile age. *EPMA J* 2013, 4:24.
- Christopher J. Centeno, Hasan Al-Sayegh, Michael D. Freeman, Jay Smith, William D. Murrell, Rostyslav Bubnov: *A multi-center analysis of adverse events among two thousand, three hundred and seventy two adult patients undergoing adult autologous stem cell therapy for orthopaedic conditions.* *International Orthopaedics* 03/2016; DOI:10.1007/s00264-016-3162-y
- Rostyslav V Bubnov: *The use of trigger point "dry" needling under ultrasound guidance for the treatment of myofascial pain (technological innovation and literature review).* *Lik Sprava.* 2010 Jul-Sep;(5-6):56-64. Review.
- Highly accessed** Bubnov RV, Spivak MY, Lazarenko LM, Bomba A, Boyko NV: Probiotics and immunity: provisional role for personalized diets and disease prevention *EPMA Journal* 2015, 6:14.
- Rostyslav Bubnov, Viacheslav Yevseenko, Igor Semeniv: *Ultrasound guided injections of Platelets Rich Plasma for muscle injury in professional athletes. Comparative study.* *Medical ultrasonography* 06/2013; 15(2):101-105.
- Yevhen V. Moiseyenko, Viktor I. Sukhorukov, Georgiy Yu Pyshnov, Iryna M. Mankovska, Kateryna V. Rozova, Olena A. Miroschnychenko, Olena E. Kovalevska, Stefan-Arpad Y. Madjar, Rostyslav V. Bubnov, Anatoliy O. Gorbach, Kostiantyn M. Danylenko, Olga I. Moiseyenko: *Antarctica challenges the new horizons in predictive, preventive, personalized medicine: preliminary results and attractive hypotheses for multi-disciplinary prospective studies in the Ukrainian "Akademik Vernadsky" station.* *EPMA Journal, The* 05/2016; 7(1). DOI:10.1186/s13167-016-0060-8
- Jella-Andrea Abraham, Olga Golubnitschaja, ... Nadiya V Boyko, Rostyslav V. Bubnov, Vadym M Goncharenko, Ulyana Lushchik, Natalia O. Tymoshok, Oleksandr B. Shcherbakov, Nadiya M.

- Zholobak, Mykola Y. Spivak, Sergiy A. Grabovetskyi, Olena M. Mykhalchenko, Natalia O. Tymoshok, Igor P. Semeniv, et al. *EPMA-World Congress 2015 EPMA Journal* 2016;7(Suppl 1):9.
- M.Y. Spivak, R.V. Bubnov, L.M. Lazarenko, N.O. Tymoshok: *Sonoporation delivered gold nanoparticles for myopathy treatment on rat model*. *Journal of the Neurological Sciences* 10/2013; 333(Suppl 1):e456.
- Bubnov R.V., Fodor D.: *Latent trigger point platelet rich plasma (PRP) injections under ultrasound guidance for chronic myofascial pain*. *Journal of the Neurological Sciences* 10/2013; 333(Suppl 1):e91.
- Rostyslav V Bubnov, Ivan Melnyk: *A NOVEL APPROACH TO IMAGE ANALYSIS FOR HEPATIC ONCOLOGY DIAGNOSIS BASED ON FRACTAL GEOMETRY. PRELIMINARY RESULTS*. *Journal of Hepatology* 04/2013; 58:S258-S259
- Mykola Spivak, Rostyslav Bubnov, Ilya Yemets, Liudmyla Lazarenko, Natalia Timoshok, Anna Vorobieva, Sergii Mohnatyy, Zoia Ulberg, Liudmyla Reznichenko, Tamara Grusina, Volodymyr Zhovnir, Nadia Zholobak: *Doxorubicin dose for congestive heart failure modeling and the use of general ultrasound equipment for evaluation in rats. Longitudinal in vivo study.*. *Medical ultrasonography* 03/2013; 15(1):23-8.
- Olga Golubnitschaja, Manuel Debal, Walther Kuhn, Kristina Yeghiazaryan, Rostyslav V. Bubnov, Vadym M. Goncharenko, Ulyana Lushchik, Godfrey Grech, Katarzyna Konieczka: *Flammer Syndrome and potential formation of pre-metastatic niches: A multi-centred study on phenotyping, patient stratification, prediction and potential prevention of aggressive breast cancer and metastatic disease*. *EPMA Journal*, The 01/2016; 7(Suppl 1).
- Costigliola V, Golubnitschaja O, ... Rostyslav Bubnov, et al.: *General report & recommendations in predictive, preventive and personalised medicine 2012: white paper of the European Association for Predictive, Preventive and Personalised Medicine*. *EPMA Journal*, The 11/2012; 3(1):14.
- Dragulyan M.V., Gulko T.P., Bubnov R.V., Irodov D.M., Pokholenko Ia.O., Kordium V.A.: *Ultrasound-Controlled Osteoarthritis Model in Rats*. *Slovak journal of health sciences*. 10/2012; 3(2):107-108.
- Rostyslav V Bubnov: *Unremovable idiopathic pelvic pain treatment by a novel ultrasound guided technique.*. *European Journal of Neurology* 08/2012; 19(Suppl. 1):586.
- Ivan M. Melnyk, Rostyslav V. Bubnov: *CHOICE OF DIAGNOSTIC DECISION MAKING IN MEDICINE AND INTERVENTION MISTAKE PREDICTION USING MATHEMATICAL MODELS*. *Information Models and Analyses*. 05/2012; 1(1):78-83.
- Rostyslav V Bubnov: *Ultrasonography for local muscle spasticity management*. *Movement Disorders* 01/2012; 27(Suppl 1):336.
- Rostyslav V Bubnov, O. P. Gandurska-Pavlenko: *The trigger points dry needling and injection technique under ultrasound guidance for shoulder myofascial pain treatment. A comparative study*. *European Journal of Neurology* 01/2012; 19(Suppl. 1).
- OK Toporova, DM Irodov, RV Bubnov, OL Kholodkova, TP Gulko, TP Ruban, PV Morgunov, VA Kordium: *INTRAHEPATIC ULTRASOUND-MEDIATED GENE DELIVERY*. *Journal of Hepatology* 01/2012; 58(S119).
- Rostyslav V Bubnov: *ULTRASONOGRAPHY DIAGNOSTIC CAPABILITY FOR MESENTERIC VASCULAR DISORDERS*. *Gut* 10/2011; 60(Suppl 3):A104.
- Rostyslav V Bubnov, Yevgen S Butsko: *3D VECTOR MODELING FOR TRANSJUGULAR INTRAHEPATIC PORTOSYSTEMIC SHUNT (TIPS) UNDER COMBINED SONOGRAPHIC AND X-RAY CONTROL - A NOVEL APPROACH*. *Gut* 10/2011; 60(Suppl 3):A356.
- Rostyslav V Bubnov: *CAN PAIN MANAGEMENT PROTOCOLS BE EVIDENCE BASED, PHYSIOLOGICAL, SAFE AND PERSONALIZED? NEW CHALLENGES FOR EDUCATION IN PPPM*. *EPMA Journal*, The 08/2011; 2(Suppl 1):S70.
- Rostyslav V Bubnov, Ivan M Melnyk: *QUESTION OF CHOISE, DECISION MAKING IN DIAGNOSTIC IMAGING AND INTERVENTION MISTAKE PREDICTION MATHEMATICAL MODELING APPROACH*. *EPMA Journal*, The 08/2011; 2(Suppl 1):S186.
- Pilecki Zbigniew, Hrazdira Lubos, Pilecki Grzegorz, Rostyslav V Bubnov: *Puncture techniques in ultrasonography*. *Journal of Ultrasonography* 2084-8404. 05/2011; 45.
- Bubnov R.V., Kyselova O.G.: *Three-dimensional modeling of novel ultrasound guided technique for craniomandibular pain syndromes management*. *Biomedical engineering (Kyiv)*. 04/2011; 1:32-36.
- Rostyslav V Bubnov: *SIMULATION OF REGIONAL ANESTHESIA UNDER ULTRASOUND CONTROL USING INTEGRATED APPLICATION OF THREE DIMENSIONAL TECHNOLOGIES AND PHANTOMS*. *International Medical Journal* ISSN 2308-5274. 03/2011;
- R V Bubnov, R Ia Abdullaiev: *[Main sonographic parameters of regional anesthesia conduction in the lower extremities under ultrasound guidance]*. *Lik Sprava*. 2010 Oct-Dec;(7-8):97-107. Ukrainian.
- R V Bubnov, A M Strokan, R Ia Abdullaiev: *[Comparative study of performance of lower extremities blocks under ultrasonography and nerve stimulator guidance]*. *Lik Sprava*. 2011 Jan-Mar;(1-2):126-31. Ukrainian.

- R. V. Bubnov: *Ultrasonography Diagnosis of Peripheral Neuropathy. The Initial Experience*. Ultrasound in Medicine and Biology - ULTRASOUND MED BIOL. 01/2011; 37(8).
- R. V. Bubnov: *Ultrasound-Guided Trigger Point Dry Needling: A New Approach for Myofascial Pain Syndrome Management*. Ultrasound in Medicine and Biology - ULTRASOUND MED BIOL. 01/2011; 37(8).
- R. V. Bubnov: *The Study of Nerve Sonoanatomy for Regional Anesthesia Under Ultrasound Guidance Using the Integrated Application of Three-Dimensional Modeling Based on the Expert Segmentation of Sonographic Images*. Ultrasound in Medicine and Biology - ULTRASOUND MED BIOL. 01/2011; 37(8).
- Rostyslav V Bubnov: *ULTRASOUND DIAGNOSIS OF PERIPHERAL NEUROPATHY. THE INITIAL EXPERIENCE*. European Journal of Neurology 01/2011; 18:569-569.
- V.O. Benyuk, O.V. Kalenskaya, V.M. Goncharenko, A.M. Strokan, R.V. Bubnov: *Immunohistological chemical research of the apoptosis and endometrium APUD-system state interreaction in normal and pathological conditions*.
- O. I. GRECHANYK, R. Ya. ABDULLAIEV, R. V. BUBNOV: *ULTRASOUND DIAGNOSIS OF COMBAT INJURIES OF PERIPHERAL NERVES*.
- V. V. Mokrozub, L. M. Lazarenko, L. P. Babenko, Y. O. Melnichenko, N. V. Boyko, O. M. Demchenko, P. M. Lytvyn, R. V. Bubnov, M. Y. Spivak: *THE INFLUENCE OF CELL WALL PROPERTIES OF LACTOBACILLI AND BIFIDOBACTERIA STRAINS ON THE PHAGOCYtic CELLS FUNCTIONAL ACTIVITY*.
- Ildar Akhmetov, Rostyslav V Bubnov: *Assessing value of innovative molecular diagnostic tests in the concept of personalized, predictive and preventive, medicine*. EPMA Journal, The 09/2015; 6. DOI:10.1186/s13167-015-0041-3
- Rostyslav V Bubnov: *A COMPARATIVE STUDY WITH TRIGGER POINT DRY NEEDLING UNDER ULTRASOUND GUIDANCE AND BLIND TECHNIQUE. A NEW APPROACH FOR MYOFASCIAL PAIN SYNDROME MANAGEMENT*. European Journal of Neurology 01/2011; 18:194.
- Z. Pilecki, Luboš Hrazdira, G. Pilecki, R. Bubnow: *Techniki punkcyjne w ultrasonografii*. Journal of Ultrasonography 2084-8404. 01/2011; 11(45):38-45.
- Rostyslav V Bubnov, Olga G Kyselova: *Three-dimensional modeling for temporomandibular joint dysfunction diagnosis and craniomandibular pain syndromes management*. Acta of bioengineering and biomechanics / Wrocław University of Technology 01/2011; 4:235-242.
- Bubnov R.V., Hnatiuk L.S., Synekop Yu.S.: *Phantom modeling of regional anesthesia under ultrasound guidance using methods of statistical analysis*. MEDICAL INFORMATICS AND ENGINEERING ISSN: 1996-1960. 01/2011;
- R. V. Bubnov: *The Use of Ultrasound Equipment of General Use for In Vivo Study of Cerium Dioxide Nanoparticles Introduction in Mice*. Ultrasound in Medicine and Biology - ULTRASOUND MED BIOL. 01/2011; 37(8).
- Rostyslav V Bubnov, R. Ya. ABDULLAYEV: *MAIN PRINCIPLES OF REGIONAL ANESTHESIA UNDER ULTRASOUND CONTROL*. International Medical Journal ISSN 2308-5274. 03/2010;
- Rostyslav V Bubnov: *ULTRASOUND GUIDANCE OF REGIONAL ANESTHESIA AT SURGERY ON THE LOWER EXTREMITIES*. International Medical Journal ISSN 2308-5274. 01/2010;
- Rostyslav V Bubnov, Klitynskyi Yu. V.: *Dry needling of trigger points under ultrasound guidance for treatment of the temporomandibular joint dysfunction. Primary experience clinical illustration and literature review*. Dental technologies (Kyiv). 01/2010; 44(1):45-52.
- Y.S. Synekop, V.I. Zubchuk, Imad Issa Dzhamil Irejfidzh, M.M. Baran, T.O. Voytsehovskaya, L.S. Hnatiuk, R.V. Bubnov: *Investigation of influence of low frequency magnetic fields on biological objects*. Electronics and Nanotechnology. 04/2011; 4(63):154-159.
- R V Bubnov, I M Melnyk: *The methods of fractal analysis of diagnostic images. initial clinical experience*. Lik Sprava. 2011 Apr-Jun;(3-4):108-13.
- A.I. Mukhomor, R.V. Bubnov: *[Using modern radiological methods for prostate cancer diagnostics]*. Lik Sprava. 2010 Jul-Sep;(5-6):118-23. Russian.

**Patents:**

- Bubnov RV: Method of diagnosis of myopathy. Patent Ukraine 2011, 61:291. IPC A61B/08, issued 07.11.2011 (Bull. N 13)
- Bubnov RV: Method of diagnosis of myopathy. Patent Ukraine 2011, 61:291. IPC A61B/08, issued 07.11.2011 (Bull. N 13)
- Bubnov RV: Method for revealing of trigger points at myofascial pain syndrome. Patent Ukraine 2011, 55:241. IPC A61B 8/0, issued 25.02.2011 (Bull. N 4)
- Bubnov RV: Method for treatment of myofascial pain syndrome. Patent Ukraine 2011, 55:241. IPC A61H 39/ 00 A61B 8/00 A61P 21/ 00, issued 25.02.2011 (Bull. N 4)
- Bubnov RV: Method for diagnosing peripheral neuropathy. Patent Ukraine 2011, 61: 290. IPC A61B 8 /08, issued 11.07.2011 (Bull. N 13).
- Bubnov RV, Melnyk IM: Method for fractal analysis of medical images. Patent Ukraine 2011, 63: 457. IPC A61B 17/00, A61B 8/06, A61M 19/00, G09B 23/28, issued 10.10.2011 (Bull. N 19).
- Bubnov RV: Method of integrated three-dimensional modeling of biomedical objects. Patent Ukraine 2011, 61:777. IPC A61B 8/08, issued 25.07.2011 (Bull. N 14)
- Bubnov RV: Method for diagnostics of podagric nephropathy. Patent Ukraine 2012, 66: 903. IPC A61B 8/08 G01N 33/ 70, issued 25.01.2012 (Bull. N 2).
- Spivak MY, Yemets IM, Bubnov RV: Method for modeling of heart failure. Patent Ukraine 2013, 66: 903. IPC A61B 10/00 A61B 8/00, issued 03.11.2013 (Bull. N 5).