

## Selected publications of Dr. Nedka Lyubomirova Trifonova

- Novoselska L., N. Trifonova, Ch. Alexiev. A comparative assessment of water soluble proteins in the ocular lens of various vertebrate classes, Scientific Works of Medical Institute Pleven, VI, 1984; 1: 9-13.
- Trifonova N., L. Novoselska, P. Pesheva, Ch. Alexiev. Isoelectric focusing of water soluble proteins from human eye lens. Compt. rend. Acad. Bulg. Sci., 1985; 38, 7: 929-931. (**IF 0.130**)
- Novoselska L., Z. Zelev, M. Daskalova, N. Trifonova. Cuticular antigens of *Trichinella spiralis* larvae and their characteristics. In: Trichinellosis. Proceedings of the Fourth International Conference on Trichinellosis, August 26 –28, 1976, Poznan, Poland. University Press of New England, 1978; 115-120.
- Trifonova N., Ch. Alexiev, M. Stamenova, M. Goranov. Age-related changes of water-soluble proteins of human eye lens during the prenatal period, Ophthalmic research, 1993; 25 (3): 162-171. (**импкт фактор 0.588**)
- Trifonova N., M. Stamenova, I. Boulanov, M. Goranov, J. Bours Comparative investigation on water-soluble crystallins of the embryonic, fetal and postnatal human lens during development and ageing, German J.Ophthalmol, 1997; 5: 454-460. (**IF 0.477**)
- Tournev I., P. K. Thomas, R. Gooding, D. Angelicheva, R. King, B. Youl, V. Guerguelcheva, B. Ishpeкова, K. Blechsmidt, K. Swoboda, R. Petkov, M. Molnar, Z. Kamenov, E. Siska, N. Taneva, P. Borisova, C. Lupu, M. Raycheva, N. Trifonova, A. Popova, A. Corches, I. Litvinenko, L. Merlini, M. Katzarova, B. Tzankov, G. Popa, P.A. Akkari, A. Rosenthal, O. Donzelli, L. Kalaydjieva. Congenital cataract facial dysmorphism, neuropathy (CCFDN) syndrome – Clinical, Neuropathological and genetic investigations. Acta Myologica, XX, 2001, 3: 210-219.
- Kalaydjiev S. K., D. K. Dimitrova, N. L. Trifonova, R. N. Fichorova, N. G. Masharova, Y. N. Raicheva, M. N. Simeonova, E. I. Todorova, V. I. Todorov and L. S. Nakov. The age-related changes in the incidence of “natural” anti-sperm antibodies suggest they are not auto-/isoantibodies. Am J Reprod Immunol 2002; 47 (2):65-71. (**IF 2.448**)
- Trifonova N., S. Kalaydjiev, M. Stamenova, R. Trifonova, W. Breipohl. Porcine eye lens crystallins: antigenic similarity with human crystallins, and tool for the detection of anti-lens crystallin antibodies. Graefe's Archive for Clinical and Experimental Ophthalmology, 2002, 240:777-781. (**IF 1.177**)
- Trifonova N. D. Dimitrova, S. Kalaydjiev, L. Hristov, B. Anguelov, K. Nikolov, R. Stanislavov, T. Boyadjiev, L. Nakov. Studies on the correlation between anti-chlamidial antibodies and antibodies against immunologically sequestered eye lens crystallins and sperm antigens, Archives de l'Union Medical Balkanique, 2003, (**in press**)
- Stoeff S., M. Vretenarska, N. Stojanova, S. Halacheva, Sv. Jovtchev, M. Tsaneva, T. Galabova, N. Trifonova, M. Penev. On the interrelationships between erythrocyte aggregation, plasma viscosity and the total peripheral resistance in arterial hypertension. Clinical Hemorheology and Microcirculation, 2004, 30: 439-441.

- Cherneva R, Georgiev O, Petrova D, Stamenova M, Trifonova N. The role of small heat shock protein alphaB crystalline in COPD pathogenesis. *Journal of COPD* 2012; 7:633-640.
- Radostina Cherneva, D. Petrov, O. Georgiev, Y. Slavova, D. Toncheva, Stamenova, N. Trifonova. Expression profile of the small heat shock protein alpha-B crystallin in operated on non-small cell lung cancer patients: clinical implication. *European Journal of Cardio-Thoracic Surgery* 2010; 37(1):44-50.
- Cherneva Radostina, Petrov Danail, Georgiev Ognian, Slavova Yanina, Toncheva Draga, Trifonova Nedka. Clinical usefulness of alpha-B crystalline antibodies in NSCLC patients *Interactive and Cardio-Vascular Thoracic Surgery* 2010; 10(1): 14-18
- Nechev, C., V. Karaslavova, A. Bairakova, M. Simeonova, N. Trifonova, P. Sulovski, V. Shopova. Evaluation of the genetic effect in combined external irradiation with ionizing sources and cerium-144, Scientific Works of Medical Institute, Pleven, III, 1981; 1: 13-17.
- Simeonova, M., N. Trifonova. Two cases of Crouzon disease with a special reference to related medicogenetic problems. In: Scientific Works of Medical Institute Pleven, V, 1983; 2: 53-57.
- Novoselska L., I. Mazhdrakova, N. Trifonova, Ch. Alexiev. Investigation of the aqueous humour of patients with senile cataract at different stages of development for detection of alpha and beta crystallins. *Comp rend Bulg Acad Sci*, 40, 1987; 8: 119-121. (**IF0.130**)
- Trifonova, N., L. Novoselska, Ch. Alexiev, P. Lisaev, E. Marinov. Separation of alpha-, beta- and gamma-crystallins from human lens by Sephadex gel chromatography, Scientific Works of Medical Institute Pleven, IX, 1987; 1: 51-54.
- Trifonova N., D. Hristova., M. Stamenova, I. Mazhdrakova, R. Koleva, L. Nakov. Antibodies against lens crystallins and retinal S-antigen in long living men and women. *Comp rend Bulg Acad Sci*, 48, 1995; 8: 113-115.
- Hristova D., N. Trifonova, D. Marinova, M. Doneva, R. Koleva. Serum antibodies against S-antigen and lens crystallins in patients with uveitis. *Comp. Rend. Bulg. Acad. Sci.*, 53, 2000, 2: 113-116.
- Wu Shou-Shan, R. Koleva, R. Doncheva, N. Trifonova. Regional reaction to the water-soluble proteins of the lens crystallina after alloimmunisation of rats. *Comp rend Bulg Acad Sc.*, 53, 2000; 3: 99-102.
- Trifonova N, I. Mazhdrakova, M. Stamenova, I. Boulanov, R. Kolarova, L. Nakov. Anti  $\alpha$ -,  $\beta$ - and  $\gamma$ - crystallins antibodies in sera of cataract patients. *Comp rend Bulg Acad Sci*, 53, 2000; 7: 107-110.
- Mehandjiev D., N. Trifonova, A. Nakova, I. Mazhdrakova. Alpha- and beta-crystallins in humor aqueous and corpus vitreum in experimental cataract. *Comp rend Bulg Acad. Sci.*, 53, 2000; 7: 103-106.
- Stoeff S., S. Iovchev, I. Dikov, M. Vretenarska, N. Trifonova, M. Marinov, M. Penev. Plasma viskosity as a possible alternative used to screen in vitro for preeclampsia. Proceedings of the eighth national conference on biomedical physics and engineering (with intwrnational participation), Sofia 12-14 October 2000; 176-179.
- Hristova D., N. Trifonova, D. Marinova, M. Doneva, W. Breipohl. Serum antibodies

against S-antigen and lens crystallins suggest autoimmune pathogenesis of uveitis. Acta medica bulgarica, XXVIII 2001; (1-2): 86-93.

- Trifonova N., S. Kalaydziev, M. Stamenova, R. Trifonova, W. Breipohl. Immunochemical comparative investigation of human and porcine eye lens crystallins. Comp rend Bulg Acad. Sci, 55, 2002; 2: 97-102.
- Stoeff S., I. Dikov, M. Vretenarska, S. Jovtchev, N. Trifonova, M. Penev. Quantitative utility assessment of some biophysical and rheological tests used in hypertension research. I. Relevance analyses of the test parameters. Comp rend Bulg Acad. Sci, 56, 2003; 5: 95-100.
- Stoeff S., A. Mladenova, Sv. Jovtchev, M. Ganeva, T. Galabova, T. Galabova, M. Vretenarska, I. Raichev, I. Dikov, N. Trifonova, L. Lambreva. M. Penev. A survey on haemorheological and haemostatic indices in patients with arterial hypertension, Proceedings of the IX National Conference on Biomedical Physics and Engineering, Sofia, 14-16.10.2004.
- Mineva I., A. Russinova, M. Ahrend, M. Stamenova, N. Trifonova, K. Mainhard, W. Breipohl. Location of low-molecular heat shock protein (sHSP)  $\alpha$ B crystallin in human placenta, Comp rend Bulg Acad. Sci, 58, 2005, 85-90.
- Stoeff S., I. Dikov, M. Vretenarska, S. Jovtchev, T. Galabova, N. Trifonova, A. Mladenova, S. Hadjieva, L. Lambreva, M. Penev. Quantitative utility assessment of some biophysical and rheological tests used in hypertension research. II. Relation of the parameters to some clinico-laboratory indices. Comp rend Bulg Acad. Sci, 58, 2005; 4: 463-468.
- D. Dimitrova, N. Trifonova, S. Kalaydziev, B. Anguelov, L. Hristov, K. Nikolov, T. Boyadjiev, L. Nakov. Antibodies against immunologically sequestered human antigens and correlation between them and anti-chlamidial antibodies. Comp rend Bulg Acad. Sci, 58, 2005; 3: 349-352.
- Mineva, M. Stamenova, S Popovska, T. Betova, P. Rashev, E. Sapundzhiev, M. Simeonova, N. Trifonova. Localization of low molecular weight stress protein (sHsp) alpha B-crystallin in human thyroid gland. Comp rend Bulg Acad. Sci, 60, 2007, 4: 449-452.
- Stoeff S., Iliana Buteva, Nedka Trifonova, Maria Stamenova, Milko Shishenkov, Winrich Breipohl. Assessment of von Willebrand Factor as a Marker for Endothelial Dysfunction in Arterial Hypertension, Proceeding of the 2<sup>nd</sup> Euro Summer School on Biorheology Symposium on Micro Mechanobiology of Cells, Tissues and Systems, Varna, Bulgaria, September 17-20 2006, published by Avangard Sofia, 2007, p92-95
- Stoeff S., I. Dikov, N. Trifonova, S. Skelina, T. Galabova, S. Jovtchev, A. Mladenova, M. Penev. A Study of Hematological Indices in Pregnancy. Proceeding of the 2<sup>nd</sup> Euro Summer School on Biorheology Symposium on Micro Mechanobiology of Cells, Tissues and Systems, Varna, Bulgaria, September 17-20 2006, published by Avangard Sofia, 2007, p 96-99.
- Stoeff S., S. Slaveikow, S. Hadjieva, T. Galabova, N. Trifonova, S. Jovtchev. Oxidative Stress in Primary Hypertension. Proceeding of the 2<sup>nd</sup> Euro Summer School on Biorheology Symposium on Micro Mechanobiology of Cells, Tissues and Systems, Varna, Bulgaria, September 17-20 2006, published by Avangard Sofia, 2007, p 100-103.

- Cherneva R, Georgiev O, Vlasov V, Stamenova M, Trifonova N. Expression of small heat shock protein alpha-B crystallin in non-small cell lung cancer. *Acta Morphologica et anthropologica* 2008;15 -23.
- Buteva-Hristova I, Trifonova N., Genov M, Bechev B, Stamenova M. Antibodies against alpha crystallins in women with reproductive failures, *Comp rend Bulg Acad Sci*, 2009, 62, 2, 285-291
- Radostina Cherneva, O.Georgiev, D.Petrov, Yanina Slavova, Draga Toncheva, B. Bechev, Maria Stamenova, Nedka Trifonova. Expression of small heat shock protein alpha-B crystallin in NSCLC. *Comptes Rendus* 2009;62 (11): 1483-8.
- Radostina Cherneva, O.Georgiev, D.Petrov, Yanina Slavova, Draga Toncheva, Blagovest Bechev, Maria Stamenova, Nedka Trifonova. Alpha crystallin antibodies in NSCLC patients. *Comptes Rendus* 2009; 62(12): 1615-20.
- Lyubov Yotova, Nedka Trifonova, Terry Vrabcheva, Vasilka Mironova, Vasilena Chuchuranova. Investigation of the properties of covalent immunobilized anti-aphlatoxin B1 antibody on membranes of copolymer of Polyacrylamide-polyacrylonitrile. *Int. J. BIO Automatiation*, 2010, 14, 3:187-196
- S. Stoeff, Z. Naychov, T. Galabova, N. Trifonova, M. Shishenkov, S. Jovtchev, B. Bechev, S. Hadjieva, A. Mladenova, M. Penev, M. Vretenarska, E. Rachev. The leukocyte adhesiveness/aggregation test in arterial hypertension research. *Series on Biomechanics*, 2010, **25**, No. 1-2, 169-173. (Peer-reviewed journal edited by the Bulgarian Academy of Sciences)
- Marinova S. Stoeff, N. Trifonova, S. Jovtchev, A. Mladenova, B. Bechev. Hematological indices in hypertension. Lecture in: European Medical Physics and Engineering Conference incorporating XI<sup>th</sup> National Conference of Biomedical Physics and Engineering and VI<sup>th</sup> European Conference of Medical Physics, 18-20 October, 2012, Sofia, Bulgaria, *Proceedings*, p. **100**
- D.M., Y.G. Slavova, N.B. Trifonova, L.N., Maksimov, D.T. Kostadinov, D.B. Petrov. Evaluation of the expression of the low weight heat shock protein  $\alpha$ B-crystallin in pulmonary neuroendocrine tumors. *C. R. Acad. Bulg. Sci.* 2013, 66 (2), pp 281-288.
- Marinova D.M., Y.G. Slavova, VI.N. Maksimov, N.L. Trifonova, D.T. Kostadinov, D.B. Petrov. Evaluation of the expression of the low weight heat shock protein Hsp27 in pulmonary neuroendocrine tumors. *C. R. Acad. Bulg. Sci.* 2013, 66 (6), in press.

Teaching manual:

- Stavreva M, Ed van Klink, I. Buteva, N. Trifonova. Food Safety. Exposure to Toxic Environment. Chapter 6, Module 32.1. in: Training Medical Doctors and Students in Nutrition, Study Manual Educational Modules, 2005, v. 2: 88-98. (Project Leonardo da Vinci Programme, Pilot Project: BG-03-B-F-PP-166039, Life Long Learning System: Nutrition at the Level of Molecular Medicine)