NATALIA D. GLADKOVA
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SUMMARY

Professor Natalia D. Gladkova graduated from the medical faculty of the Nizhny Novgorod State Medical Academy (Russia) in 1974 and received her DSc in Medicine (Rheumatology) in 1997. She is currently Head of the Laboratory of Studying optical structure of biotissues in Institute of Biomedical Technologies (NNSMA).

RESEARCH INTERESTS

Professor Natalia D. Gladkova's scientific efforts are focused on organization and carrying out of multidisciplinary and interdisciplinary basic and applied scientific research in the development of new approaches to study of the mechanisms of development, diagnosis and treatment of diseases. She is interested in studying the possibilities of optical bioimaging methods, especially optical coherence tomography, to evaluate the structure of normal and pathological biotissues.

SELECTED PUBLICATIONS

1. **Gladkova N.D.** Optical coherence tomography: a novel medical imaging modality Course of lectures. Nizhny Novgorod: IAP RAS 2005; 324 p.
2. Handbook of optical coherence tomography. Ed. **Gladkova N.D.,** Shakhova N.M., Sergeev A.M. Moscow: FIZMATLIT, Medkniga. 2007, 296 p.
3. **Gladkova ND,** Fomina YV, Kiseleva EB, Karabut MM, Robakidze NS, Muraev AA, Radenska-Lopovok SG and Maslennikova AV. Optical Coherence Tomography in Dentistry. Chapter 69. **Handbook of Biophotonics**. Photonics for Health Care. First Edition. Edited by J. Popp, V. Tuchin, A. Chiou and S.H. Heinemann. Published by Wiley-VCH. 2012, 2: 1029-1040.
4. G.E. Romanos, **N.D. Gladkova,** F.I. Feldchtein, M.M. Karabut, E.B. Kiseleva, L.B. Snopova, Y.V. Fomina. Oral Mucosa Response to Laser Patterned Microcoagulation (LPM) Treatment. An animal Study. **Lasers in Medical Science**. 2013; 28(1): 25-31 *(Web of Science, Impact Factor: 2.461).*
5. **Natalia Gladkova,** Elena Kiseleva, Natalia Robakidze, Irina Balalaeva, Maria Karabut, Ekaterina Gubarkova, Felix Feldchtein. Evaluation of oral mucosa collagen condition with cross-polarization optical coherence tomography. **Journal of Biophotonics.** 2013; 6(4): 321-329 *(Web of Science, Impact Factor: 3.818).*

6. **N. Gladkova,** E. Kiseleva, O. Streltsova, N. Prodanets, L. Snopova, M. Karabut, E. Gubarkova, E. Zagaynova. Combined use of fluorescence cystoscopy and cross-polarization OCT for diagnosis of bladder cancer and correlation with immunohistochemical markers. **Journal of Biophotonics.** 2013; 6(9): 687-698 *(Web of Science, Impact Factor: 3.818).*
7. Lev A. Matveev, Vladimir Yu. Zaitsev, Grigory V. Gelikonov, Alexandr L. Matveyev, Alexander A. Moiseev, Sergey Yu. Ksenofontov, Valentin M. Gelikonov, Marina A. Sirotkina, **Natalia D. Gladkova,** Valentin Demidov, Alex Vitkin. Hybrid M-mode-like OCT imaging of three-dimensional microvasculature in vivo using reference-free processing of complex valued B-scans. **Optics Letters.** 2015; 40(7): 1472-1475. *(Web of Science, Impact Factor: 3.179).*
8. Gubarkova EV, Dudenkova VV, Feldchtein FI, Timofeeva LB, Kiseleva EB, Kuznetsov SS, Shakhov BE, Moiseev AA, Gelikonov VM, Gelikonov GV, Vitkin A, **Gladkova ND.** Multi-modal optical imaging characterization of atherosclerotic plaques. **Journal of Biophotonics.** 2015 Nov 25. doi: 10.1002/jbio.20150 0223. *(Web of Science, Impact Factor: 3.818).*
9. Elena Kiseleva, Mikhail Kirillin, Felix Feldchtein, Alex Vitkin, Ekaterina Sergeeva, Elena Zagaynova, Olga Streltzova, Boris Shakhov, Ekaterina Gubarkova, **Natalia Gladkova**. Differential diagnosis of human bladder mucosa pathologies in vivo with cross-polarization optical coherence tomography. **Biomedical Optics Express.** 2015; 6(4): 1464-1476 *(Web of Science, Impact Factor: 3.648).*
10. Vladimir Y. Zaitsev, Alexander L. Matveyev, Lev A. Matveev, Grigory V. Gelikonov, Ekaterina V. Gubarkova, **Natalia D. Gladkova** and Alex Vitkin. Hybrid method of strain estimation in optical coherence elastography using combined sub-wavelength phase measurements and supra-pixel displacement tracking. **Journal of Biophotonics.** 2016; 9(5): 499-509 *(Web of Science, Impact Factor: 3.818).*
11. PS Timashev, SL Kotova, GV Belkova, EV Gubar'kova, LB Timofeeva, **ND Gladkova,** and AB Solovieva. Atomic Force Microscopy Study of Atherosclerosis Progression in Arterial Walls **Microsc. Microanal.** 2016; 22: 311–325 *(Web of Science, Impact Factor: 1.730)*

Author of 19 patents: 12 patents of Russian Federation and 7 international patents (6 US patents and one European patent)

Information about publications (May 2016)

h-index	17(Elibrary) / 15 (Web of Science) / 14 (Scopus)
SPIN	6855-2682(elibrary)
ORCID	0000-0002-8386-7157
Link to profile in the Web of Science	http://www.researcherid.com/rid/H-4953-2016
Link to profile in the Scopus	https://www.scopus.com/authid/detail.uri?authorId=7005387816
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	https://orcid.org/my-orcid http://www.researcherid.com/rid/H-4953-2016 https://www.scopus.com/authid/detail.uri?authorId=7005387816
The total number of publications	89 (Scopus) 167 (Elibrary) 150 (Web of Science)