

CURRICULUM VITAE

Mikhail S. Kleshnin

PERSONAL DATA

Last Name: Kleshnin

First Name: Mikhail

Middle Name: Sergeevich

Date of Birth: 15 September 1984

Citizenship: Russian Federation

Place of birth: Bolshoe Mokroe

CONTACT INFORMATION

Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS)

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PROFESSIONAL ACTIVITY

2007 - present: Researcher at the IAP RAS

2010 - present: Researcher at the Nizhny Novgorod State University

EDUCATIONAL BACKGROUND

2009 – graduate of the International Graduate Summer School Biophotonics '09 (Sweden)

2007 – 2010: postgraduate student at the IAP RAS

2007 – Master degree on Radiophysics

2005 – Bachelor degree on Radiophysics

2001 – 2007: Student at the radiophysics faculty of Nizhny Novgorod State University

HONORS AND AWARDS

2011 – Gold medal of the Kulibin inventor (Optical diffuse tomography setup)

2008 – Scholarship of the Razuvaev academician

2007 – Scholarship of the Razuvaev academician

SOCIETY MEMBERSHIPS

2008 – present: The International Society for Optical Engineering (SPIE).

SCIENTIFIC INTERESTS

- Development of optical devices for biomedical diagnostics
- Small animal fluorescence imaging
- Diffuse optical tomography
- Image analysis and processing
- Automated control systems

PUBLICATIONS

10 peer-reviewed journal publications, 31 abstracts in conference proceedings

Selected publications

I.V. Turchin, V.I. Plehanov, A.G. Orlova, V.A. Kamensky, M.S. Kleshnin, M.V. Shirmanova, N.M. Shakhova, I.V. Balalaeva, A.P. Savitsky, «Fluorescence diffuse tomography of small animals with DsRed2 fluorescent protein», *Las. Phys.*, 16(5), p.741-746, 2006.

I.V. Turchin, I.V. Balalaeva, R.B. Vasil'ev, V.P. Zlomanov, V.I. Plehanov, A.G. Orlova, E.V. Zagaynova, V.A. Kamensky, M.S. Kleshnin, M.V. Shirmanova, S.G. Dorofeev, D.N. Dirin, «Imaging of QDs-labeled tumors in small animals by fluorescence diffuse tomography», *Las. Phys. Let.*, 3(4), p.208-211, 2006.

A.G. Orlova, I.V. Turchin, V.I. Plehanov, N.M. Shakhova, I.I. Fiks, M.S. Kleshnin, N.Yu. Konuchenko, V.A. Kamensky, «Frequency-domain diffuse optical tomography with single source-detector pair for breast cancer detection», *Las. Phys. Let.*, 5(4), p.321-327, 2008.

I.V. Turchin, V.A. Kamensky, V.I. Plehanov, A.G. Orlova, M.S. Kleshnin, I.I. Fiks, M.V. Shirmanova, I.G. Meerovich, L.R. Arslanbaeva, V.V. Jerdeva, A.P. Savitsky, «Fluorescence diffuse tomography for detection of red fluorescent protein expressed tumors in small animals», *J. Biomed. Opt.*, 13(4), p.041310-10, 2008.

M.S. Kleshnin, I.V. Turchin «Spectrally resolved fluorescence diffuse tomography of biological tissues», *Quantum Electronic*, 40(6), p.531-537, 2010.

M.V. Shirmanova, E.V. Zagaynova, M.A. Sirotkina, L.B. Snopova, I.V. Balalaeva, I.V. Krutova, N.Yu. Lekanova, I.V. Turchin, A.G. Orlova, M.S. Kleshnin, «In vivo study of photosensitizers pharmacokinetics by fluorescence transillumination imaging», *J. Biomed. Opt.*, 15(4), p.0480041-8, 2010.

Patents

Patents in Russian Federation in the area of diffuse optical spectroscopy and diffuse fluorescence tomography numbers: 2368306 (2009), 2373973 (2008), 91517 (2010).

Claims approved numbers: 2010117525 (2010)