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Diagnostics,
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Dmitry A. Zimnyakov
(auth.) , Valery V.
Tuchin (eds.) This

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Victorovich Tuchin
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Optical Methods in
Biomedicine XX.
Editor(s): Joseph A.
Izatt; James G.

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Fujimoto; Valery V.

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optical methods in

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biomedical science and
clinics Speckle in
optical coherence
tomography Joseph
Schmitt , S. Xiang , Kin
Yung

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Volume 4 Issue 1 |
Journal of
Biomedical Optics

Optical coherence
tomography and other
optical methods and
instruments based on
coherent light
interactions with
tissues and detection

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methods are promising
for noninvasive
medical diagnostics
and monitoring a wide
spectrum of
pathologies as well as
fundamental
biomedical research.

**Optical Coherence
Tomography and
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Intraoperative OCT
system. The portable
system used for this
study included a

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commercial spectral
domain OCT system
(Bioptigen, Inc., 633
Davis Dr., Suite 480,
Morrisville, NC 27560)

that employed a
superluminescent
diode as an optical
source with a center
wavelength of 1310
nm.

Intraoperative optical coherence tomography for assessing ...

OCT is an emerging

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Because it senses
elastically scattered
light which maintains
the coherence of the
incident light, OCT is
not capable of directly
detecting
bioluminescent or ...

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**Optical probes and
techniques for
molecular contrast**

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methods in biomedical
optics Reversible
transition between
different scattering
regimes stimulated by
the application of the
certain chemical
agents to the human
sciera samples had
been studied using
speckle intensity

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correlation analysis;
corresponding results
are presented.

Diagnosics
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methods in
biomedical optics,
Proceedings ...**

Determining micron-
scale fluid flow
velocities using optical
coherence tomography
(OCT) is important in
both biomedical
research and clinical
diagnosis. Numerous
methods have been

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explored to quantify
the flow information,
which can be divided
into either phase-based
or amplitude-based
methods.

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**OSA | Optical flow
optical coherence
tomography for ...**
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Applications III
(Progress in biomedical
optics and imaging)

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New ed. Edition by
Valery V. Tuchin
(Editor), Joseph A. Izatt
(Editor)

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Optical Methods in
Biomedical Science
and ...**

Background/Aims To
evaluate, with spectral-
domain optical
coherence tomography
(SD-OCT), the
glaucoma-diagnostic
ability of a deep-
learning classifier.

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Methods A total of 777

Cirrus high-definition

SD-OCT image sets of

the retinal nerve fibre

layer (RNFL) and

ganglion cell-inner

plexiform layer (GCIPL)

of 315 normal subjects,

219 patients with early-

stage primary open-

angle glaucoma

(POAG) and ...

Dual-input

convolutional neural

network for

glaucoma ...

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Tuchin is the editor of the Handbook of Coherent-Domain Optical Methods: Biomedical Diagnostics, Environmental Monitoring, and Materials Science (Springer). His research interests include biophotonics, tissue optics, laser medicine, tissue optical clearing, and nanobiophotonics. He is a guest professor of

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Huazhong University of
Science and ..

**Multimodal Optical
Diagnostics of And
Cancer | Valery V ...**

C. Canavesi, A.
Cogliati, and H. B.
Hindman, "Unbiased
corneal tissue analysis
using Gabor-domain
optical coherence
microscopy and
machine learning for
automatic
segmentation of
corneal endothelial

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Optical Methods
cells," J. of Biomedical
Optics, 25(9), 092902
(2020).
Diagnostics

**LightTopTech Corp. |
Publications**

Water wavenumber
calibration for visible
light optical coherence
tomography Tingwei
Zhang, aAaron M. Kho,
and Vivek J. Srinivasan
a,b, * aUniversity of
California Davis,
Department of
Biomedical
Engineering, Davis,

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California, United
States bUniversity of
California Davis, School
of Medicine,
Department of And
Ophthalmology and
Vision Science,
Sacramento, California,
United States

**Water wavenumber
calibration for
visible light optical**

...

Balas C., " Review of
biomedical optical
imaging—a powerful,

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non-invasive, non-
ionizing technology for
improving in vivo
diagnosis," Meas. Sci.
Technol. 20 (10), ... V.
Tuchin, Handbook of
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Optical Methods:
Biomedical Diagnostics
Environment and
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(Kluwer Academic,
2004). 5.

**Online object
oriented Monte
Carlo computational**

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We report herein the first visible light optical coherence tomography angiography (vis-OCTA) for human retinal imaging.

Compared to the existing vis-OCT systems, we devised a spectrometer with a narrower bandwidth to increase the spectral power density for OCTA imaging, while retaining the major spectral contrast in the

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blood. We achieved a
100 kHz A-line rate, the
fastest acquisition
speed ...

Environment And Material Science V 12 **OSA | Visible light optical coherence tomography ...**

Patients were
evaluated with respect
to best corrected visual
acuity using the
Snellen chart. The
patients had pupil
dilation by tropicamide
and evaluation through
digital color fundus

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photography,
fluorescein
angiography (FA) and
spectral-domain optical
coherence tomography
(SD-OCT) (Cirrus™ HD-
OCT 4000, Carl Zeiss
Meditec, Dublin, CA,
USA).

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