

Multi-photon microscope driven by novel green laser pump - DTU Orbit (09/11/2017)

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Multi-photon microscopy is extensively used in research due to its superior possibilities when compared to other microscopy modalities. The technique also has the possibility to advance diagnostics in clinical applications, due to its capabilities complementing existing technology in a multimodal system. However, translation is hindered due to the high cost, high training demand and large footprint of a standard setup. We show in this article that minification of the setup, while also reducing cost and complexity, is indeed possible without compromising on image quality, by using a novel diode laser replacing the commonly used conventional solid state laser as the pump for the femtosecond system driving the imaging.

General information

State: Published

Organisations: Department of Photonics Engineering, Diode Lasers and LED Systems, Copenhagen Center for Health Technology, Technical University of Denmark

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Number of pages: 5

Publication date: 2016

Host publication information

Title of host publication: Proceedings of SPIE

Volume: 9712

Publisher: SPIE - International Society for Optical Engineering

Editors: Periasamy, A., So, P. T. C., König, K.

Article number: 97121M

Series: Proceedings of SPIE, the International Society for Optical Engineering

Volume: 9712

ISSN: 0277-786X

Main Research Area: Technical/natural sciences

Conference: SPIE Photonics West 2016, San Francisco, United States, 13/02/2016 - 13/02/2016

Multi-Photon Microscopy, Diode Laser, Contrast, Image Quality

Electronic versions:

Marti_et_al._2016_Multi_photon_microscope_driven_by_novel_green_lase.pdf

DOIs:

10.1117/12.2208586

Bibliographical note

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Relations

Projects:

Multi-photon microscope driven by novel green laser pump

Source: PublicationPreSubmission

Source-ID: 122898581

Publication: Research - peer-review › Article in proceedings – Annual report year: 2016