



Polarization-based optical interference approach for differential diagnosis of benign and malignant tumours

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ABSTRACT

The polarization-based optical interference approach is expanded for an express differentiation between prostate adenocarcinoma with different grades and Gleason scores. The approach is founded on evaluation of local contrast of polarized interference patterns originated by a superposition of reference laser beam and interference of light transmitted through the tissue sample placed in the image plane. The observed polarization-based optical interference patterns are linked directly to the morphology of the biological tissue under investigation. The polarization patterns obtained for three sets of histological sections of the prostate tumour biopsy samples are further processed with the statistical moments of 1st to 4th order. The developed approach is implemented for assessment of histological sections of the prostate tumour tissues with high, moderately and poorly differentiated adenocarcinoma. The application of the developed polarization-based optical interference approach demonstrates a high (> 90%) level of accuracy.

1. Introduction

Prostate cancer is one of the most common (4th place) cancer in men worldwide and, nowadays, is the most common diagnosed type of cancer [1,2]. Early detection of this type of disease is extremely essential and allows significantly improve the patient outcomes [3,4]. Various screening tests, including general and biochemical blood analysis, are used extensively for prostate cancer diagnosis. Nevertheless, early stages of the prostate cancer are still hardly detectable due to no discernible observation of tissue malformations both in sense of biochemical and molecular markers and, therefore, the actual diagnosis can remain unknown for years. Optical imaging diagnostic modalities provide a unique possibility of real-time non-invasive and cost-effective discrimination between different stages of cancer aggressiveness [5]. Apart from evaluation of cancer aggressiveness the differentiation of types of malignant (adenocarcinoma) prostate tissue is another important goal [4].

Last decade polarization imaging has been consistently and successfully developed with the main aim of functional non-invasive imaging and quantitative characterization of biological tissue [6–8]. Tissue polarimetry becomes quite diverse field of research with various approaches, including Mueller matrix polarimetry [9,10], two-dimensional [11–15] and three-dimensional [16] Mueller matrix mapping using various approximations, polar decomposition of Mueller matrices [17–19], and scattering matrices [20,21]. Quite a number of polarimetric diagnostic modalities are based on the quantitative evaluation of optical anisotropy of biological tissues [15,22,23]. A combined use of polarization and interference is highly promising approach for this purpose, as well as for further developments of Mueller-matrix diagnosis and its functionality [24,25].

However, for the most biological tissues, the efficiency of polarization diagnostics is significantly reduced due to the presence of a high level of depolarized background, which masks the polarization man-

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