OMICS Group Conferences
Accelerating Scientific Discovery

3rd World Congress on
Cancer Science & Therapy

October 21-23, 2013 DoubleTree by Hilton Hotel San Francisco Airport, USA

Fluorescence for diagnosis at point of care

Aurelija Vaitkuviene
Lithuania University, Lithuania

Abstract

This lecture will address a variety of topics related to the use of optical diagnostics in cancer screening at point of care. The fluorescence spectra consists the information for diagnosis. The data processing and storage methods, as well, as simplicity of the device for the fluorescence spectroscopy makes it promising. By this device it was performed the women reproductive tract investigation on waste material samples. Non neoplastic and neoplastic pathology group's discrimination accuracy will be presented. Also the possibility of therapeutics spectral signatures monitoring will be demonstrated. Most convenient and least invasive for patient, most economical for medical care providers and handy for medical personnel spectral diagnosis device will be proposed. Usefulness for personalized medicine practical implementation will be discussed.

Biography

J.V.Vaitkus, Dr.Sc., FIoP, last 50 years investigates different materials (mostly semiconductors), author more than 250 peer-reviewed papers. He initiated a foundation of the Institute of Applied Research at Vilnius University, serves for "Lithuanian Journal of Physics" and for 'Laser in Medicine" magazine as deputy editor. He is President of Lithuanian Physics Society. Senior Researcher A.Vaitkuviene, PhD, M.D., is gynecologist and laser medicine scientist. Doctoral studies on ultrasound and termography in obstetrics later turned on laser medicine. She served as principal investigator for different medical laser equipment clinical trials. Editorial board member for "HPV Today" and renovated European Medical Laser Association (EMLA) "Laser in medicine"magazines. International Academy on Laser Medicine and Surgery founding member, President Elect of International Phototherapy Association www.ipta2013.com, President of Lithuanian branch of EMLA