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European Pathology 2019- Novel series of cyano-aryl porphyrazines with benzyloxy and propargyl substituents in peripheral aryl fragments for specifically personalized medicine: Optical viscosity sensing and PDT treating

**Biography:** Larisa Klapshina received her PhD from Razuvaev Institute of Organometallic Chemistry of Russian Academy of Sciences, IOMC RAS Nizhny Novgorod, Russia. Currently she is a Senior Researcher at IOOMC RAS and at the Laboratory of Optical Theranostics in Nizhny Novgorod State University. She and her group work in organic, organometallic synthesis and functional materials in bio-photonics and biomedicine. She is author of about 100 articles.

**Abstract:** For an extended time the thought of separated diagnostic and therapeutic approaches was predominant within the development of latest medication in medication. However, recently a major increase has been ascertained within the trend to make medication that effectively mix diagnostic and therapeutic approaches. Such the medication termed the agents of theranostics permit to work out the growth localization within the body and to produce a therapeutic result thereon. what is more, in some cases theranostic agent permits to produce the important time observation of individual therapeutic response to the treatment procedure. Recently we have a tendency to reported on the preparation and studies of the photophysical properties of latest fluorescent porphyrazine pigments that are found to be a wonderful platform for medication with the distinctive combination of varied medical specialty functions: bimodal (fluorescent/ MRI) diagnostic agents, sensitive optical sensors of animate thing consistency and extremely economical photosensitizers in photodynamic medical aid. Here we have a tendency to report the new series of aryl-cyano porphyrazine pigments containing n-donor element atoms within the aromatic teams of peripheral frame of tetrapyrrol macrocycle. They demonstrate considerably improved photocytotoxic properties and therefore the potential for medical specialty application as photosensitizers in PDT compared with antecedently reported aryl-cyano porphyrazine Pz1. Moreover, this series of tetrapyrrols the structural feature of that is that the alternation of powerfully lepton retreating CN and  $\pi$ -donor aryl teams within the peripheral frame of macrocycle are found to be novel fluorescent molecular rotor kind dyes with the fascinating feature of intense absorption and emission of red light-weight which will be helpful in vivo to modify deep tissue penetration within the 'tissue optical window'. High effectuality of all the series because the fluorescent sensors of native consistency during a wide consistency vary, had been incontestable. what is more, we have a tendency to 1st planned empiric model describing photophysical behavior of novel porphyrazine series. The model was verified with visible light decay investigations for all the porphyrazine series, T.

General pathology includes each side of the patients care, ranging from medicine to treatment advices and bar. Pathologists work with physicians, scientists, nurses and care professionals in hospitals to diagnose, stop and treat diseases. Anatomical pathology deals with the macroscopic, microscopic, organic chemistry, medicine and molecular examination of organs and tissues to diagnose the malady. Increasing demand from analysis laboratories (anatomic pathology research) is anticipated to drive growth of the anatomic pathology market over the forecast amount. Our pathology conference 2019 unites a rare and international mix of pathologists. the worldwide marketplace for anatomic pathology can doubtless to rise at a gentle pace of six.5% throughout the amount from 2017 to 2025. In pathology conference we are going to realize clinical pathology that may be a medical speciality that deals with the diagnoses of malady supported the laboratory analysis of body fluids like blood, excrement and tissue homogenates or extracts victimisation special tools of chemistry, heamatology and molecular pathology. the worldwide clinical pathology has been perpetually developing sector. The worldwide marketplace for clinical pathology can doubtless to realize USD 324.5 billion by 2022 from USD 206.7 billion out of 2016 with a CAGR of six.5% for the calculable amount. Cytopathology may be a process that diagnoses malady's the on cellular level to see the cause or the character of disease. the primary cytopathology check that has been wide utilised within the last fifty years was the smear test for screening and identification of cervical cancer and its precursors. Cytopathology is easy, fast, non-invasive and repeatable whereas demonstrating high sensitivity and specificity thus deserves acceptable attention. Histopathology is that the study of tissues and cells underneath the magnifier and frequently includes autopsis. forensic medicine worries with the determination of reason for death by post-mortem examination/autopsies throughout investigation of a stiff or partial remains. it absolutely was 1st recognized by the yankee Board of Pathology in 1959 within the us. Our pathology conference 2019 unites a rare and international mix of pathologists and consultants from driving faculties and analysis institutions creating the gathering a perfect stage to share involvement, encourage joint effort crosswise over trade and also the studious community, and assess rising innovations over the world. medicine pathology focuses on the designation and characterization of growth and non-neoplastic diseases of youngsters. This deals with embryonal, fetal, perinatal, infantile, childhood and adolescent pathology. The gross and microscopic examinations area unit performed to acknowledge innate anomalies, infections, and alternative maternal/fetal conditions which can cause adverse perinatal outcomes like preterm delivery, intrauterine growth restriction, or physiological condition loss. Neuropathology that's involved with the designation of malady of systema nervosum tissue by examining diagnostic test tissue from the brain and funiculus. neurologic disorders area unit muscle weakness, paralysis, altered level of consciousness, pain etc. Neuropathologists sometimes add a department of anatomic pathology, however work closely with the neurology and surgical operation, that depend upon neuropathology for a designation.

Note: This abstract has partly presented at 2nd European Pathology Congress held in Berlin, Germany, May 20, 2019