

## Σεμινάριο Τμήματος Χημείας

Δευτέρα 22 Απριλίου, 10:00πμ - 11.00πμ, Αίθουσα Α2

Ομιλητής :

**G. Mike Makrigiorgos Ph.D**

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**Title: Magnification of rare mutations in cancer samples and liquid biopsies: challenges and opportunities**

### **Abstract**

DNA mutation detection has numerous applications in cancer diagnostics and personalized medicine. As will be discussed in this presentation, low-level mutations in clinical samples are always present, and provide both challenges and opportunities in cancer medicine, with 'liquid biopsies' being the best example. The potential of liquid biopsies for prognostic, predictive or early cancer detection applications grows, but so does the demand for technical advances that enable the ever-increasing range of applications. We will present new technologies allowing highly-parallel elimination of wild type DNA alleles in clinical samples, boosting the ability of downstream detection methods for detecting point mutations that reveal minimal residual disease following cancer therapy.