



## Ahmed Abdelhalim Yameny

*Society of Pathological Biochemistry and Hematology, Egypt*

### The role of miRNA in early cancer diagnosis

Cancer affects everyone - the young and old, the rich and poor, men, women and children, about 16% of people die from cancer, in 2015, 8.8 million people died from cancer-nearly 1 in 6 global deaths (WHO). The total economic cost of cancer in 2010 was estimated at approximately \$1.16 Trillion. Cancer defined as a disease in which a group of abnormal cells grow uncontrollably the normal cell of division, continue and spread, it can be fatal, we now define cancer as a disease involves mutations in the cell genome (DNA mutations), cancer starts in just one cell, so early laboratory diagnosis of cancer is very important, ordinary tumor markers are not enough and using 400-gene test for cancer is difficult and limited in medical laboratory, miRNAs biomarkers have become as key molecular components of the cell in both normal and pathologic states, each tumor type has a distinct miRNA signature, now there are over 2500 human miRNAs recorded, the purpose of this work is to design a one laboratory test for early diagnosis of cancer using small

group of miRNAs as one panel, which need blood sample less than 1 ml by which patient can check up for many types of cancer, can do population screening, diagnosis, prognosis, therapeutic decision making and disease monitoring.

#### Speaker Biography

Ahmed Abdelhalim Yameny is the head of society of pathological biochemistry and hematology. He is the chairman of Medical Laboratory Syndicate in Egypt. He was the chairman for five international conferences of medical laboratory and four international conferences of the society of pathological biochemistry and hematology. He is an expert and medical laboratory consultant. He is chief editor of Journal of Bioscience and Applied Research; International Journal of Pathology and Biomarkers and Journal of Medical and Life Science. He has a PhD in Microbiology and has five high diplomas (bacteriology, public health of parasitology and medical entomology, analytical biochemistry, hematology and genetic analysis). He has a BSc in Biochemistry (Alexandria University in Egypt) and he has a BSc in Biochemistry/Chemistry (Tanta University in Egypt). He is a researcher and interested in molecular pathology.

e: [dr.ahmedyameny@yahoo.com](mailto:dr.ahmedyameny@yahoo.com)

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