Araştırmacılara,

Ventura olarak CAtenA çözümümüzün bilimsel araştırmalarda deneysel analiz ve karşılaştırmalar içinde kullanılmasını destekliyoruz. ArGe ürünlerimizin kullanım performanslarının bağımsız incelemelere tabi tutulmasından mutluluk duyuyoruz. Yayınlar içinde CAtenA'nın tanıtımında ve referans gösteriminde doğru bilgilendirme yapılabilmesi için aşağıdaki açıklayıcı metnin ve referansın kullanılmasını gerektiğini önemle dikkatinize sunuyoruz.

Araştırmalarından bizi haberdar etmek, birlikte çalışmak ya da teknik destek isteyen araştırmacıların arge@ventura.com.tr adresine e-posta göndermelerini rica ediyoruz.

Çalışmalarınızda başarılar dileriz,

Ventura Yazılım

Dear Researchers,

We support the use of our CAtenA solution for experimental analysis and comparisons in scientific research. We are pleased to see the usage performances of our R&D products that are subject to independent reviews. We strongly suggest that the following explanatory text and reference should be used to provide accurate information while introducing and making citation to CAtenA in your publications.

We kindly ask researchers who want to keep us informed of their research, work together, or require technical support to send an e-mail to arge@ventura.com.tr.

We wish you success in your work,

Ventura Software

CAtenA is a smart solution developed for automatic assessment of Covid-19 PCR tests and also it presents attractive study environment and archiving functionality. With help of CAtenA test assessments become less mistaken and time consuming and it makes microbiologist free from devices. In other words, CAtenA is interoperable with different analyzers and kits, it presents web-based solution, tests can be studied individually or as groups obtained by applying various filters and also previous decisions are open to review with the original data. The last and one more CAtenA's feature is that it is empowered with big data analytics and artificial intelligence to analyze test results and make decision such as positive, negative and rerun. According to our best knowledge, it is unique in the world, and it presents quite good experience for usage of data analytic solution as the second eye in clinical cycles.

Both the sampling process and the subjective conditions of the sample owner (the disease suspect) directly effects the growth or genetic material and causes changing in CT/Cq and shape of sigmoidal behavior of fluorescent against to cycles. To handle this type of changes correctly, each qPCR fluorescence curve (qPCR growth profile) should be assessed individually, and decisions should be given by considering the whole plate that is indirect effect for sampling procedure.

The problem of real-time PCR assessment is composed of 4 steps in CAtenA (i) Calculation of PCR amplification parameters individually (ii) Determination of Sigmoidal occurrences (iii) Calculation of Final Individual PCR Efficiency (iv) Interpretation of result. Especially, big data analytics has been applied in step 4 to get magic numbers from the benchmark and with the help of magic numbers, determination of consistency that should be observed to decide positive or negative becomes possible. And also, sigmoidal situation is determined with help of 4 different sigmoidal curve equations that correspond to 4 parameters log-logistic, 5 log and/or logistic and 7 log-logistic.

To cite use: https://ventura.com.tr/catena, <visit date>