

## 2<sup>nd</sup> International Conference on **Predictive, Preventive and Personalized Medicine & Molecular Diagnostics**

November 03-05, 2014 Embassy Suites Las Vegas, USA

## Bedside molecular diagnostics in the clinical and non-clinical settings

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Molecular diagnostic tools have been developed to be used outside of the traditional laboratory setting and in some cases for use while patients are waiting at the general practitioner's office. These same tools have similar utility in environmental and food safety settings. As lead clinical developer for the industry's smallest, most affordable and most sensitive molecular diagnostic platform, it was repeatedly demonstrated that the device could be placed within a routine clinical setting with accurate results generated while patients wait in order to administer appropriate therapy. Additionally, almost half of the requests for placement of the device came from environmental, food and water regulators as the device could identify DNA or RNA particles down to 50-60 live or dead base pairs in any liquefied medium in a completely hands-off methodology. As the source of the medium was irrelevant to the functioning of the diagnostic, particles could be detected in any type of water, animal or soil source. As development costs of these diagnostics continue to lower, placement of these devices throughout physicians offices and public health facilities should become the norm, changing the landscape of how physicians diagnose and treat patients for routine infectious diseases, and how outbreaks of diseases can be identified early on and prevented from becoming public health outbreaks.

## Biography

Adam Ruskin completed his DVM from Kansas State University and PhD and MPH in Epidemiology from Emory University. After restructuring the CDC's National Reportable Infectious Disease Surveillance System, he lead clinical development for over 80 pharmaceutical, medical device and diagnostic products over the past 20 years, including Gentura'sIDbox for molecular diagnostics. He has developed the industry's first clinical trial laboratory tracking software and is a leading pharmaceutical and medical device industry best practices and keynote speaker. With 4 successful start-up companies, he now heads clinical development of LabCRO, one of the leading CROs for the diagnostics industry.

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