

# UltraFast Sample Prep & Real-Time PCR Demonstration by US SCIENTIFIC

**Rapid Molecular Diagnosis of Infectious Pathogens  
Using LabChip-based Real-time PCR.**

**Special Guest & Speaker:  
Sung-Woo Kim, Ph.D., CEO  
NANOBIOSYS INC.**



**FREE SEMINAR & LUNCH**  
**State of the Art—New Technological System for**  
**Molecular Diagnostic System & Process**  
**March 17th or 18th 2015**

Marriott Courtyard Silver Spring North  
12521 Prosperity Drive  
Silver Spring MD 20904



**Due to limited seating, please  
call to reserve a seat for  
March 17 or 18  
(888) 556-2112**

Registration: 8:00 AM  
Conference: 9:00 AM - 4:00 PM  
Lunch Noon —1:00 PM

*Making Molecular Diagnosis Fast, Simple, Efficient, Accurate and Economical*



## Sung-Woo Kim, Ph.D., CEO NANOBIO SYS INC.

### Careers

- Columbia University : Ph.D.
- Harvard Medical School : Research Professor.
- Tufts University School of Medicine : Research Professor.
- Access Bio Inc. : CTO.
- NANOBIO SYS INC. : CEO/ Founder.

### Patents and Awards

- **UltraFast LabChip Real-time PCR /Sample Prep Patents:**  
> 70 (Domestic / Foreign / PCT)
- **Awards**  
2011 Korea Technology Award/Knowledge & Economy Minister' s Award.  
2011 Technology Award/ Korea BioChip Society.
- **UN**  
Speaker in Biological Weapon Convention (BWC)" (2013.8.14)  
Selected one of 8 UN BWC Science and Technology Experts

### MEETING ITINERARY & SCHEDULE

- |                    |                 |
|--------------------|-----------------|
| ■ 8:00 AM          | REGISTRATION    |
| ■ 8:00 - 9:00 AM   | FOOD & BEVERAGE |
| ■ 9:00 - 11:00 AM  | MEETING / DEMO  |
| ■ 11:00 - 11:45 AM | Q & A           |
| ■ 12:00 - 1:00 PM  | LUNCH           |
| ■ 1:00 - 3:00 PM   | MEETING / DEMO  |
| ■ 3:00 - 4:00 PM   | Q & A           |
| ■ 4:00 - 5:00 PM   | DISCUSSION      |

### CONFERENCE LOCATION

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#### UltraFast LabChip Sample Prep G2-12

**15 -20 Minutes for  
DNA / RNA Extraction**



#### UltraFast LabChip Real-Time PCR G2-3/4

**9 - 15 Minutes for 30  
Cycles of Real-Time PCR**

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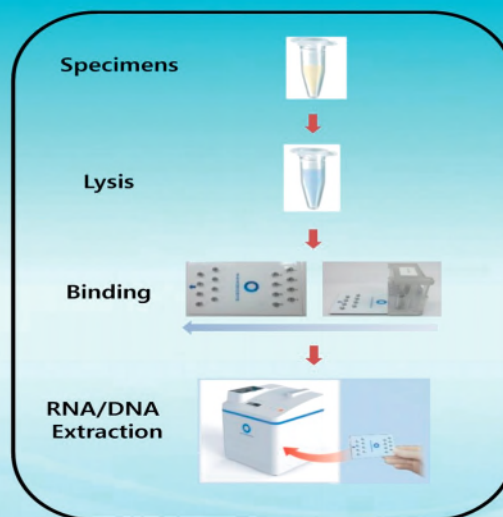
**FAST**  
**SIMPLE**  
**EFFICIENT**  
**ECONOMICAL**

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& Clinical Lab Expo**  
in  
**Atlanta, Georgia**  
on  
**July 26 - 30, 2015**  
In Booth No: 3772

**FAST**  
**SIMPLE**  
**ACCURATE**  
**ECONOMICAL**

**Fast, Simple, Efficient and Economical**

**NBS: 15-20 min**



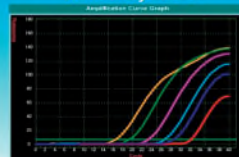
**Fast, Simple, Accurate and Economical**

**LabChip-type Real-time PCR**



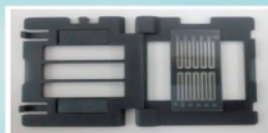
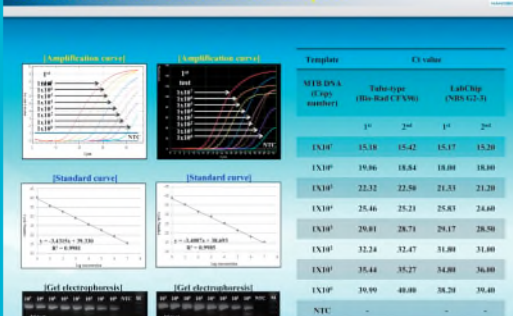
**9-15 min for 30 cycles**

**Instrument Comparison with Food Pathogen  
NanoBioSys G2-3**



No.	Sample name	Ct value
1	Non template	-
2	Shigella gDNA 1X10 <sup>5</sup> /copies	16.50
3	Shigella gDNA 1X10 <sup>4</sup> /copies	19.25
4	Shigella gDNA 1X10 <sup>3</sup> /copies	23.20
5	Shigella gDNA 1X10 <sup>2</sup> /copies	26.60
6	Shigella gDNA 1X10 <sup>1</sup> /copies	28.50
7	Shigella gDNA 1X10 <sup>0</sup> /copies	32.13
8	Shigella gDNA 1X10 <sup>0</sup> /copies	-

**Clinical Test with Tuberculosis Samples**



**LabChip Case**



**6 CH**

**10 CH**

**16 CH**

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