Introducing a New Method for Single Cell Aneuploidy Detection

Agilent Technologies invites you to attend the live webinar presented by Dr. Ali Hellani on a Multiple Displacement Amplification (MDA) method for same day, cost-effective Aneuploidy Detection with Agilent Oligonucleotide array CGH. This webinar will highlight sample processing, workflow, and the unique advantages of the new single cell protocol including:

- **Time-sensitive:** Less than 7 hours from amplification to data analysis.
- **Economical:** Ability to process up to 14 samples on one 8x60K slide.
- **Complete Solution:** Integrate with Agilent CytoGenomics Software.

**Title**

Same Day, Cost-Effective Aneuploidy Detection with Agilent Oligonucleotide array CGH and MDA Single Cell Amplification Method

**Presenter**

Ali Hellani, Founder, Viafet Genomic Center, Dubai

**When**

Wednesday, March 19th, 2014

**Time**

5:00pm (CET)

**Abstract:**

In light of the time sensitive nature of pre-implantation genetics research and the need for an economical method to screen many samples in a high throughput environment, Dr. Hellani developed a same-day, cost effective protocol using the Agilent SurePrint G3 Human CGH Microarrays and a Multiple Displacement Amplification (MDA) method. The total time from amplification to data analysis can be as short as 6.5 hours. Dr. Hellani’s method allows for the processing of more samples per slide and the generation of DNA suitable for CGH and other applications, such as next generation sequencing. Utilizing this short, cost-effective protocol, copy number changes in individual genomes amplified from single cells can be accurately identified.

**Ali Hellani, PhD, MHGSA**

Graduated from Lebanese university in 1994 with a bachelor in molecular biology. Continued his postdoctoral studies in France where he finished his master and PhD in molecular biology of the male reproduction and Pre-implantation Genetic Diagnosis. He established the first PGD center for single gene disorder in Middle East in 1999 in King Faisal Specialist Hospital in Riyadh. After serving in King Faisal for 6 years, he joined Saad Specialist Hospital in 2005 were he established a state of the art referral genetic facility. He obtained the Australian board in molecular genetics in 2010 and has over 50 publications in peer reviewed journals. Currently, Dr. Hellani is doing development and investigating new techniques for clinical pre-implantation research.