



## YOU ARE CORDIALLY INVITED TO ATTEND THE Fluidigm Workshop at PAG XVIII.

### Workshop Title:

**Enabling High Sample Throughput SNP Genotyping for Plant and Animal Studies**

### Date & Time:

**Tuesday, January 12, 1:30 – 3:50 PM**  
**Town & Country Royal Palm Salon 1, 2, 3**

### Speakers:

**Curt Van Tassell, USDA-ARS**  
*Bovine Testing*

**Jim Seeb, University of Washington**  
*Salmon Conservation*

**Nanne Faber, Enza Zaden**  
*Seed Quality Control*

### While you're at PAG XVIII...

Visit Fluidigm booth 126, featuring the Fluidigm EP1™ system for high throughput SNP genotyping and digital PCR.

### ABSTRACT

#### **Agriculture and conservation studies present a unique challenge for genetic analysis**

because of the diversity and high sample number requirements associated with them. As the pace of genetic research accelerates, new methods must be developed to meet the ever increasing needs of this industry. Fluidigm offers a system that meets these needs and provides unique enabling advantages for high sample throughput plant and animal SNP genotyping studies. Dynamic Array™ Integrated Fluidic Circuits (IFCs) can generate 9,216 data points on a single chip in a matter of hours. This is accomplished with 100-fold less pipetting steps and reagent consumption compared to conventional 384-well plates. The entire process has been designed to easily integrate with existing automation systems and can be scaled to achieve 100-fold greater sample throughput compared to standard systems. Further, the system is designed to be compatible with existing chemistries, including gold standard TaqMan® assays, to achieve superior data quality. The benefits of the system have been demonstrated in a number of plant and animal applications, ranging from cattle breeding to salmon conservation and quality control of seed lots.

