



## Hands-on Flow Cytometry Workshop - 2017

TRPVVB conducts a series of three-day workshops on “Veterinary Clinical applications of Flow cytometry / Confocal microscopy / *In vivo* imaging / 2D gel electrophoresis”, one each every year. The first workshop for the year 2017 would be on “Veterinary Clinical applications of Flow cytometry” involving basic techniques of flow cytometry and its clinical applications. This workshop at TRPVVB will provide a good learning platform for different facets of flow cytometry applications under the accomplished faculty members of TRPVVB and external experts.

This workshop would be held from 24/07/2017 to 26/07/2017

TRPVVB invites applications for the 3-day hands on training on basic applications of flow cytometry. The training course gives an opportunity for the participants to have hands-on training on immune phenotyping, autoimmune disease analysis and semen characterization and analysis.

### Schedule

<b>DAY 1</b>		
<b>TIME</b>	<b>THEORY TOPIC</b>	<b>PRESENTER</b>
10.00 A.M to 10.10 A.M	Welcoming Participants	Dr. K. Kumanan
10.20A.M to 11.20 A.M	Basics of flow cytometry	Dr. G. Dhinakar Raj
11.30 A.M to 12.30 P.M	Instrumentation of Moflo XDP high speed cell sorter with compensation technique	Dr.V.Maroudam / Dr. K.Chitra / Mr. Seenuvasan
<b>PRACTICAL SESSION</b>		
12.30 A.M to 01.30 P.M	Hands on Moflo XDP high speed cell sorter	Dr. K.Chitra /Mr. Seenuvasan
2.00 P.M to 5.00 P.M	Beads analysis and calibration of instrument	Dr. M. Amitav /Dr. K.Chitra / Mr. Seenuvasan
<b>DAY 2</b>		
<b>TIME</b>	<b>THEORY</b>	<b>PRESENTER</b>
10.00 A.M to 11.30 A.M	Multiplexing and Compensation	Dr. M. Amitav
<b>PRACTICAL SESSION</b>		
11.30A.M to 01.00 P.M	Autoimmune disease analysis	Dr.K.Chitra/P.Valentina Claudet
02.00 P.M to 03.00 P.M	Immunophenotyping	Dr. M. Amitav/ Dr.V.Maroudam
03.00P.M to 04.00 P.M	Immunophenotyping	Dr.K.Chitra /Dr. M. Amitav
04.00 P.M to 05.00 P.M	Results and interpretation using FACS -Moflo-XDP.	Dr.V.Maroudam /Dr. M. Amitav
<b>DAY 3</b>		
<b>TIME</b>	<b>THEORY</b>	<b>PRESENTER</b>
10.00 A.M to 11.30 A.M	Flow cytometry applications in semen biology	Dr.V.Maroudam
<b>PRACTICAL SESSION</b>		
11.30 A.M to 01.00 P.M	Sperm viability - Propidium Iodide (PI), (SYBR 14 / PI), Acrosomal integrity (FITC-PNA/ PI), Sperm Chromatin structure assay (Acridine Orange)	Dr.K.Chitra/Dr.V.Maroudam
02.00 P.M to 03.00 P.M	Protein Biomarkers for Sperm Quality	Dr.V.Maroudam / Dr.K.Chitra
03.00 P.M to 04.00 P.M	Membrane potential ( Mito-tracker deep red), Oxidative stress analysis using Cell –Rox dye	Dr. M. Amitav / P.Valentina Claudet
04.00 P.M to 05.00 P.M	Results and interpretation using FACS - Moflo-XDP.	Dr.V.Maroudam /Dr.M.Amitav

### **Venue**

Translational Research Platform for Veterinary Biological (TRPVVB)  
Central University Laboratory, CAHS, TANUVAS  
Madhavaram Milk Colony, Chennai- 600 051, India.

**Phone: 91-44-25556275, 25556276 E-mail: dirtprvb@tanuvas.org.in**

### **Registration Details**

- No of participants: 10 (maximum)
- Registration fees: Rs.5000/- (**ONLY BY DD / NEFT**)
- Registration will be on First-Come-First-Serve basis
- No TA/DA or accommodation and transport facility will be provided.
- Taxes if any would be charged extra.

### **For NEFT transfer:**

Bank Account Name: **Director, TRPVB**

Branch: **Madhavaram, Chennai – 51**

Bank Account No.**332902010721712**

IFSC Code: **UBIN0533297**

**Application process:** The interested participants should submit the scanned application form to mail [dirtrpvb@tanuvas.org.in](mailto:dirtrpvb@tanuvas.org.in) before **15/07/2017**. The participants need to take care of their travel and accommodation on their own. The candidates would be informed of their selection by E-mail. Upon receipt of their course fees within the stipulated time in the form of DD in favour of The Director, TRPVB payable at Chennai for Rs. 5000/- their workshop slot would be confirmed.



**Translational Research Platform for Veterinary Biologicals (TRPVB)  
A DBT-TANUVAS Partnership Programme**

2<sup>nd</sup> Floor, Central University Laboratory Building, CAHS, TANUVAS  
Madhavaram Milk Colony, Chennai - 600051, Tamil Nadu, India.

**Application form for Hands-on Flow Cytometry Workshop - 2017**

**July 24<sup>th</sup> to July 26<sup>th</sup> 2017**

Name: \_\_\_\_\_ Sex: \_\_\_\_\_ Age: \_\_\_\_\_

Designation: \_\_\_\_\_

Institution/Lab: \_\_\_\_\_

City: \_\_\_\_\_ Tel (Landline): \_\_\_\_\_

Tel (Mobile): \_\_\_\_\_ Email: \_\_\_\_\_

Flow Cytometer(s) available in my institution: Yes/No

Previous flow Cytometry experience: \_\_\_\_\_

Brief write up (100 words) on why I want to join this flow cytometry course: (**COMPULSORY**)

Signature of the applicant

Recommendation from Head of the Department.

Signature of the Supervisor/HOD

Date:

Name:

Completed and duly signed forms should be scanned and emailed to Project Director dirtprvb@tanuvas.org.in

No hard copies will be accepted.