**1st TAIWAN ­­­­­­­­FLOW CYTOMETRY WORKSHOP**

**Sponsored by the Live Education Task Force of**

**The International Society for the Advancement of Cytometry**

**Hosted by the Genomics Research Center, Academia Sinica.**

 **20-22ND October, 2018**

**Faculty**

**Awtar Krishan, Bill Telford, Brent Wood, Zosia Maciorowski, Vivek Tanavde, Kovit Pattanapanyasat, David Hedley, Sue Chow, Hemant Agrawal, Matthias Schiemann, Shao-Min Han, Oscar Perng, John Kung, Chia-Ning Shen.**

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| **Oct. 20th, Saturday** **Lectures 1-3** |
| **08.00-08.30** | **Registration** |
| **08.30-09.00** | **Introduction and opening remarks. Chia-Ning Shen, Wen Lu** |
| **09.00-10.00** | **Lecture 1: Make your own Flow Cytometer. Bill Telford** |
| **10.00-11.00** | **Lecture 2: Flow Cytometry and the Study of Malaria.** **Kovit Pattanapanyasat** |
| **11.00-12.00** | **Lecture 3: Leukemia Phenotype. Brent Wood**  |
| **12:00-13.00** | **Lunch** |
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| **Labs 1-3** |
| **13:00-17:30 PM** Slot 1 : 13:00-15:00Slot 2 : 15:30-17:30  | **Lab-1: Make your own Flow Cytometer. Bill Telford,** **Xu Wu, Cloe Chang, Kate Chen**  |
| **13:00-17:00 PM** Slot 1 : 13:00-15:00Slot 2 : 15:30-17:30 | **Lab-2: Enumeration of CD34+ hematopoietic stem cells using the ISHAGE protocol. Vivek Tanavde,** **Angela Wei, Robin Hu** |
| **13:00-17:00 PM** Slot 1 : 13:00-15:00Slot 2 : 15:30-17:30 | **Lab-3: Leukemic Phenotype and MRD. Case presentations. Brent Wood and Shao-Min Han**  |
| **18:00-20.00** |  **Dinner Reception** |
| **October 21, Sunday**  **Lectures 4-6** |
| **09.00-10.00** | **Lecture-4: Signaling Pathways Monitoring. David Hedley.** |
| **10.00-11.00** | **Lecture-5: Stem Cell Analysis. Vivek Tanavde** |
| **11.00-12.00** | **Lecture-6: Cell sorting. Matthias Schienmann.** |
| **12:00-13.00** | **Lunch** |
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| **Lab 4-5** |
| **13.30-15.30** | **Lab-4: Data Analysis and Presentation. Hemant Agrawal** |
| **15.30-17.00** | **Lab-5: FlowJo training. Cloe Chang, Kate Chen.**  |
| **19.00-21.00** | **Dinner** |  |
| **October 22. Monday****Lectures 7-9** |
| **09.00-10.00** | **Lecture -7: Polychromatic Flow Cytometry.****Zosia Maciorowski,**  |
| **10.00-11.00** | **Lecture-8: Proliferation and Differentiation road Map in Viral infected Stem Cells. Oscar Perng**  |
| **11.00-12.00**  | **Lecture-9: Unparalleled power of combining analytical and sorting capabilities of the FACS in studying lymphocyte development and function.** **John Kung** |
| **12.00-13.00** | **Group Photo and Lunch** |
| **Labs 6-8** |
| **13.00-15:30** | **Lab-6: Signal Transduction. David Hedley and Sue Chow, Juan Du, Grace Lin** |
| **13.00-15:30**  | **Lab-7: Polychromatic Flow Cytometry. Zosia Maciorowski, Xi Yang, Cloe Chang**  |
| **13:00-15:30** | **Lab-8: Cell sorting. Matthias Schienman,** **Xiaoqun Zhou, Kate Chen**  |
| **15.40-16.30** | **Quiz and Evaluation** |
| **16:30-18:00** | **Highlight Speech: The Immune System in the Era of Cytomics. Andrea Cossarizza** |
| **19.00-21.00** | **Graduation Ceremony and Dinner** |