Overview:
- Introduction to flow cytometry and enzyme linked immunosorbent assay (ELISA) principles and applications.
- Use of flow cytometry and ELISA to answer both immunological and non-immunological questions in a laboratory setting.

Lecture Topics:
- Introduction to immunology
- Immunological models
- Antibody production
- Flow cytometry principles and applications
- Florecence activated cell sorting
- ELISA principles and applications

Labs:
1. Analysis of wild type and transgenic zebrafish hematopoietic cells by flow cytometry  
   2 weeks
2. Analysis of transfection efficiency by ELISA and flow cytometry  
   2 weeks
3. Analysis of LPS stimulated cytokine production by ELISA and flow cytometry  
   3 weeks