1. Record Nr. UNINA9910298407103321

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Titolo	Flow Cytometry Basics for the Non-Expert / / by Christine Goetz, Christopher Hammerbeck, Jody Bonnevier
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-98071-8
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (xvii, 219 pages)
Collana	Techniques in Life Science and Biomedicine for the Non-Expert, , 2367-1114
Disciplina	574.87028
Soggetti	Immunoglobulins Diagnosis, Laboratory Antibodies Laboratory Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Flow Cytometry: Definition, History, and Uses in Biotechnology -- 2. Physics of a Flow Cytometer -- 3. The Language of Flow Cytometry and Experimental Setup -- 4. Fluorochrome Choices for Flow Cytometry -- 5. Compensation -- 6. Primary and Seconardy Antibodies and Their Use in Flow Cytometry -- 7. Experimental Considerations with Data Sets as Examples -- 8. Cell Enrichment -- 9. Surface and Intracellular Staining Protocols for Flow Cytometry -- 10. Troubleshooting.
Sommario/riassunto	Flow cytometry allows for the measurement of different aspects of a cell or particles in real time. Applications include quantifying various types of T cells to determine the presence of various immune disorders, such as whether HIV has progressed to AIDS, studying the dynamics of immune signaling in cells to detect the suppression of normal immune function, and analyzing biopsy specimens for tumors, to aid in cancer diagnosis and prognosis. In addition to simplifying the technique and using vocabulary accessible to those not trained in cell biology and immunology, the book includes the following 4 unqiue features: 1) Tips on how to set up an experiment for flow cytometry optimially 2) An expanded data set of flow staining including multiparameter flow cytometry 3) Detailed staining protocols for flow cytometry (ex.

protocols optimized for transcription factors, secreted cytokines, phospho-antibodies, and surface antigens) 4) Section devoted to antibody development and conjugation.