

# BD FACSCanto II Flow Cytometer

## Quick Reference Guide

This guide contains instructions for both BD FACSCanto™ classical and BD FACSDiva™ software. Follow only those sections that apply to the software you are installing. Sections are indicated with the appropriate software name.



or



### Starting Up

- 1 Turn on the cytometer main power.
- 2 Start up the computer, launch the software, and log in.
- 3 Make sure the software is connected to the cytometer. If needed, make the connection manually (FACSDiva: Connect to Cytometer).



- 4 Check fluid levels in the Status or Cytometer window.  
Empty the waste or replace fluid containers, if needed.
- 5 If automatic cleaning is disabled, run the fluidics startup procedure.



To prevent fluid backflow, make sure there is no tube on the sample injection valve (SIV) during fluidics startup.

- 6 Check the flow cell for air bubbles. If needed, run the de-gas flow cell procedure.
- 7 Check that laser warmup has finished.



# Facscanto Ii User Guide

**Anthony S. Fauci**



## **Facsanto Ii User Guide:**

Flow Cytometry Today Claudio Ortolani,2022-11-16 This book covers all the technical aspects of flow cytometry needed to set up the instrument solve problems encountered in daily work or necessary for exam preparation It provides the reader with an in depth look at the device and its applications Each component and its function is described in an easy to understand manner giving the reader a sound basic knowledge of this instrument The practical examples given simplify and enhance the learning process This book is a unique resource of knowledge for biomedical engineers and biotechnologists flow cytometry operators laboratory technicians and biomedical researchers both biologists as well as medical doctors and can also be a helpful tool for companies and manufacturers

**Handbook of Vascular Biology Techniques** Mark Slevin,Garry McDowell,2015-03-27 A wide range of research methods for the study of vascular development from basic laboratory protocols to advanced technologies used in clinical practice are covered in this work A range of methodologies such as molecular imaging platforms and signalling analysis along with tumour models are collated here Four sections explore in vitro techniques in vivo and ex vivo manipulations imaging and histological analysis and other novel techniques in vascular biology Readers will discover basic methodologies used for analysis of endothelial cell growth in vitro including co culture models of vessel formation Authors also explore isolation and purification of cells and methods for analysis of data and visualization of localized vasculature with modern imaging platforms Both animal models and human disease are covered in this work Each chapter contains helpful sections on trouble shooting additional notes and links supporting the reader to carry out protocols This book will appeal to students researchers and medical professionals working in all vascular linked fields such as cardio and cerebrovascular cancer and dementia

Prognostic Gene Signatures in Skin Cancer Colette Pameijer,Wen-Qing Li,Gagan Chhabra,2023-06-05

Lymphoma Ralf Küppers,2024-10-18 This detailed volume expands upon the previous edition with key methods currently used in lymphoma research partly specific for lymphoma research but often adaptable to the study of other cancers New chapters explore the latest approaches for single cell B cell and T cell receptor sequencing multiplexed immunophenotyping of lymphoma tissue samples genetic manipulation and extended culture of human germinal center B cells genetic mouse models of lymphomas establishment of patient derived xenograft models of lymphomas and more Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to day Lymphoma Methods and Protocols Third Edition serves as a valuable resource for hematologists hematopathologists and scientists interested in a variety of topics in cancer research human genetics and immunology

Revisiting the Life Cycle of Parasitic Protozoa Izabela Marques Dourado Bastos,Najma Rachidi,Claudia Masini d'Avila-Levy,2022-09-14

**Integrated Role of Nutrition and Digestive Physiology for Animal Health** Haoyu Liu,Demin Cai,Johan Dicksved,Anoosh Rakhshandeh,2022-01-07

The Mononuclear Phagocyte System in Infectious Disease Geanncarlo Lugo-Villarino, Céline Cougoule, Etienne Meunier, Yoann Rombouts, Christel Vérollet, Luciana Balboa, 2019-10-04

The Mononuclear Phagocyte System MPS of vertebrates is composed of monocytes macrophages and dendritic cells Together they form part of the first line of immune defense against a variety of pathogens bacteria fungi parasites and viruses and thus play an important role in maintaining organism homeostasis The mode of transmission type of replication and mechanism of disease causing differ significantly for each pathogen eliciting a unique immune response in the host Within this context the MPS acts as both the sentinel and tailor of the immune system As sentinels MPS cells are found in blood and within tissues throughout the body to patrol against pathogenic insult The strategy to detect microbial non self relies on MPS to recognize conserved microbial products known as pathogen associated molecular pattern PAMPs PAMPs recognition represents a checkpoint in the response to pathogens and relies on conserved pattern recognition receptors PRRs Upon PRR engagement MPS mount a cell autonomous attack that includes the internalization and compartmentalization of intracellular pathogens into toxic compartments that promote destruction In parallel MPS cells launch an inflammatory response composed of a cellular arm and soluble factors to control extracellular pathogens In cases when innate immunity fails to eliminate the invading microbe MPS serves as a tailor to generate adaptive immunity for pathogen eradication and generation of memory cells thus ensuring enhanced protection against re infection Indeed MPS cell functions comprise the capture process migration and delivery of antigenic information to lymphoid organs where type 1 immunity is tailored against intracellular microbes and type 2 immunity against extracellular pathogens However this potent adaptive immunity is also a double edge sword that can cause aberrant inflammatory disorders like autoimmunity or chronic inflammation For this reason MPS also tailors tolerance immunity against unwanted inflammation Successful clearance of the microbe results in its destruction and proper collection of debris resolution of inflammation and tissue healing for which MPS is essential Reciprocally as part of the evolutionary process taking place in all organisms microbes evolved strategies to circumvent the actions bestowed by MPS cells Multiple pathogens modulate the differentiation maturation and activation programs of the MPS as an efficient strategy to avoid a dedicated immune response Among the most common evasion strategies are the subversion of phagocytosis inhibition of PRR mediated immunity resistance to intracellular killing by reactive oxygen and nitrogen species restriction of phagosome maturation modulation of cellular metabolism and nutrient acquisition regulation of cell death and autophagy and modulation of pro inflammatory responses and hijacking of tolerance mechanisms among others The tenet of this eBook is that a better understanding of MPS in infection will yield insights for development of therapeutics to enhance antimicrobial processes or dampen detrimental inflammation for the host s benefit We believe that contributions to this topic will serve as a platform for discussion and debate about relevant issues and themes in this field Our aim is to bring expert junior and senior scientists to address recent progress highlight critical knowledge gaps foment scientific exchange and establish conceptual frameworks

for future MPS investigation in the context of infectious disease

## **Regulation of Vascular Function by Circulating**

**Blood** Joseph M. Rifkind, Dan E. Berkowitz, Joy G. Mohanty, 2019-08-19

## **Immunology & Serology in Laboratory**

**Medicine - E-Book** Mary Louise Turgeon, 2017-04-07 Immunology Serology in Laboratory Medicine E Book **Epitope**

**Discovery and Synthetic Vaccine Design** Clarisa Beatriz Palatnik-de-Sousa, Irene da Silva Soares, Daniela Santoro

Rosa, 2018-07-12 Since variolation conventional approaches to vaccine development are based on live attenuated inactivated or purified pathogen derived components However effective vaccines against global health threats such as HIV parasite infections and tumors are difficult to achieve On the other hand synthetic vaccines based on immunogenic epitopes offer advantages over traditional vaccines since they are chemically defined antigens free from deleterious effects Additionally in contrast to live attenuated vaccines they do not revert to virulence in immunocompromised subjects and different from genetic vaccines they do not involve ethical questions Traditional vaccines contain PAMPs and induce strong immune responses while recombinant vaccines are less potent In spite of the immunogenic weakness previously attributed to epitope based vaccines a synthetic vaccine containing a 17 amino acid epitope of the *Pseudomonas aeruginosa* Type IV pilus exceeded the protective potential of its cognate protein composed of 115 amino acids Therefore the efficacy yield of a synthetic vaccine can be potentiated by using the proper combination of target epitopes Recent advances in adjuvant development immunogen platforms for DNA vaccines and viral vectors also contributed to optimize immunogenicity Another constraint to the use of epitope vaccines was their restriction to some MHC or HLA phenotypes However epitopes containing 20 or less amino acids of *Plasmodium falciparum* and *Leishmania donovani* bind to multiple HLA DR and MHC receptors Thus synthetic epitope vaccines may better meet the requirements of the regulatory agencies since they have lower costs and are easier to produce The classical experimental approach for the development of an epitope based vaccine involves the use of recombinant domains or overlapping 15 mer peptides spanning the full length of the target antigen and the analysis of the induced antibody and or T cell immune responses in vitro or in vivo On the other hand in silico tools can select peptides that are more likely to contain epitopes reducing the number of sequence candidates T cell epitope prediction dates back to 1980s when the first algorithm was developed based on the identification of amphipathic helical regions on protein antigens Since then new methods based on MHC peptide binding motifs or MHC binding properties have been developed The recent reverse vaccinology concept uses high throughput genome sequencing and bioinformatics tools to identify potential targets of immune responses The feasibility of this approach was shown for the first time in the design of a vaccine against *Neisseria meningitidis* that is now in phase III clinical trials In addition different computational tools allow the determination of crucial genes through comparative analyses between different pathogenic strains Alternatively carbohydrates have been considered as key targets in developing safe and effective vaccines to combat cancer bacterial and viral infections Tumor associated carbohydrate antigens can be coupled covalently to protein carriers to target MHC receptors and improve immunogenicity

and have reached already pre clinical and clinical studies In light of the recent availability of genomic tools we believe that in the near future an increasing number of vaccine candidates composed of defined epitopes will be available for synthetic vaccines showing improved protection

**Innate immune responses to SARS-CoV-2 in infected and vaccinated individuals** Srinivasa Reddy Bonam,Nicasio Mancini,Nitin Saksena,Pedro A. Reche,2023-03-14 *Novel Biomarkers for*

*Predicting Response to Cancer Immunotherapy* Jinghua Pan,Fu Wang,Jian Song,2023-07-11 Immunotherapy has revolutionized the treatment of malignancies Targeting of immune checkpoints cytotoxic T lymphocyte associated protein 4 programmed cell death protein 1 PD 1 and its ligand PD L1 has led to improving survival in a subset of patients Despite their remarkable success clinical benefit remains limited to only a subset of patients A significant limitation behind these current treatment modalities is an irregularity in clinical response which is especially pronounced among checkpoint inhibition Currently relevant predictors of cancer immunotherapy response include microsatellite instability high deficient mismatch repair MSI H dMMR expression of PD L1 tumor mutation burden TMB immune genomic characteristics and tumor infiltrating lymphocytes TILs However none of them have sufficient evidence to be a stratification factor Moreover as the combined strategies for effective cancer immunotherapy had been developed in multiple tumors such as Immunotherapy combined with chemotherapy radiotherapy targeted therapy and anti angiogenesis therapy Therefore the development of novel biomarkers endowed with high sensitivity specificity and accuracy able to identify which patients may truly benefit from the treatment with cancer immunotherapy would allow to refine the therapeutic selection and to better tailor the treatment strategy

**Leishmaniasis: From Innate and Adaptive Immunity to Vaccine Development** Heinrich Korner,Uwe Ritter,2020-01-10 The parasitic disease leishmaniasis in its various clinical manifestations from self resolving skin lesion to deadly systemic infection is a serious health problem in many developing countries and is considered to be a neglected tropical disease by the World Health Organization To date a vaccine is lacking and strategies to treat severe forms of leishmaniasis efficiently are missing Basic research using animal models of experimental visceral or cutaneous leishmaniasis has allowed to dissect the immune response to parasitic pathogens and has contributed substantially to many important paradigm changing insights such as the role of cytokines in helper T cell differentiation and the impact of myeloid cell subsets on innate and adaptive immunity One strength of experimental leishmaniasis is that tissue associated parasites constitute a self renewing antigen reservoir that needs to be controlled by adaptive and innate branches of the immune response Therefore mechanisms involved in wound healing chronic inflammation host pathogen interactions and the development of long lasting memory responses can be interrogated This research topic aims to cover a broad range of important concepts in adaptive and innate immunity to leishmaniasis and will include recent work including vaccine development to understand and fight this tropical disease We welcome both reviews and original research articles that cover the latest breakthroughs in leishmaniasis research We recognize that reproducibility is a fundamental aspect of research and

thus welcome also confirmatory studies      Application of Cytometry in Primary Immunodeficiencies Tomas Kalina, Mirjam van der Burg, Roshini Sarah Abraham, Marta Rizzi, 2020-05-22 We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies IUIS We hereby state publicly that the IUIS has had no editorial input in articles included in this Research Topic thus ensuring that all aspects of this Research Topic are evaluated

objectively unbiased by any specific policy or opinion of the IUIS      **Transcription Factors in Immunological Disease and Haematological Malignancies** Tomokatsu Ikawa, Li Wu, Ashley Ng, Stephen Nutt, Jacob T. Jackson, 2024-02-23

Transcription factors are nuclear proteins that control the rate of gene expression activating or repressing transcription in a context dependent manner These regulators lie at the heart of most cell fate decisions of immune cells guiding the initiation and maintenance of lineage identity and controlling the cell type specific gene expression that underpins the unique functions of each immune cell lineage As such transcription factors are of critical importance for a healthy immune system with mutation of specific factors leading to immune dysregulation with immunodeficiency and autoimmunity In addition perturbation of transcription factors known to regulate immune cell function have been implicated in the genesis of haematological malignancies through chromosomal translocation over expression or genetic deletion      *Williams*

*Hematology, 10th Edition* Kenneth Kaushansky, Marshall A. Lichtman, Josef T. Prchal, Marcel M. Levi, Linda J. Burns, 2021-01-14 The landmark text that has guided generations of hematologists and related practitioners updated with the latest research findings and improved format and presentation Long revered for its comprehensiveness and extraordinary depth of detail Williams Hematology provides essential coverage of the origins pathophysiological mechanisms and management of benign and malignant disorders of blood and marrow cells and coagulation proteins The text contains a wealth of basic science and translational pathophysiology for optimal lifelong learning Experts in research and clinical hematology the editors are known worldwide for their contributions to the field This new edition contains everything that has made Williams Hematology the go to resource for decades and has been updated with new chapters and critical new research into the molecular mechanisms responsible for hematological disorders and the impact on diagnosis and treatment And the new format enables you to access each chapter via content modules covering key topics with summaries infographics and cases all linked to review questions for self assessment The full color presentation integrates images of blood and tissue findings where they are cited in the text NEW TO THIS EDITION Updated and revised content reflecting the latest research and developments Convenient format that streamlines the learning process and improves retention Additional chapters added on Immune Checkpoint Inhibitors Immune Cell Therapy Chimeric Antigen Receptor T Cell Therapy Immune Cell Therapy Dendritic Cell and Natural Killer Cell Therapy The processes of cell death and survival Application of Big Data and Deep Learning in Hematology Williams Hematology Cases with multiple choice questions including detailed explanations perfect preparation for the boards Continuously updated online content with comprehensive drug therapy database and other

resources      **Advances in Human Immune System (HIS) Mouse Models for Studying Human Hematopoiesis and Cancer Immunotherapy** Yasuyuki Saito,Alexandre P. A. Theocharides,Tim Willinger,2022-02-10 Topic Editor Prof Aimin Xu receives financial support from Servier Laboratories The other Topic Editors declare no competing interests with regards to the Research Topic theme      **Williams Hematology, 9E** Kenneth Kaushansky,Marshall A. Lichtman,Josef Prchal,Marcel M. Levi,Oliver W. Press,Linda J. Burns,Michael Caligiuri,2015-12-23 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The world s most highly regarded reference text on the mechanisms and clinical management of blood diseases A Doody s Core Title for 2020 Edition after edition Williams Hematology has guided generations of clinicians biomedical researchers and trainees in many disciplines through the origins pathophysiological mechanisms and management of benign and malignant disorders of blood cells and coagulation proteins It is acknowledged worldwide as the leading hematology resource with editors who are internationally regarded for their research and clinical achievements and authors who are luminaries in their fields The Ninth Edition of Williams Hematology is extensively revised to reflect the latest advancements in basic science translational pathophysiology and clinical practice In addition to completely new chapters it features a full color presentation that includes 700 photographs 300 of which are new to this edition and 475 illustrations Recognizing that blood and marrow cell morphology is at the heart of diagnostic hematology informative color images of the relevant disease topics are conveniently integrated into each chapter allowing easy access to illustrations of cell morphology important to diagnosis Comprehensive in its depth and breath this go to textbook begins with the evaluation of the patient and progresses to the molecular and cellular underpinnings of normal and pathological hematology Subsequent sections present disorders of the erythrocyte granulocytes and monocytes lymphocytes and plasma cells malignant myeloid and lymphoid diseases hemostasis and thrombosis and transfusion medicine      *Immune Regulations in Reproductive Organs and Organ Transplant* Lei Huang,Andrew L. Mellor,Anatolij Horuzsko,Sha Wu,2022-04-18      *Cancer Research* ,2006-12



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