

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 path (SIP) 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.



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PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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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 Regulation of Vascular Function by Circulating Blood Joseph M. Rifkind,Dan E. Berkowitz,Joy G. Mohanty,2019-08-19

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

The Mononuclear Phagocyte

System in Infectious Disease Geanncarlo Lugo-Villarino, Céline Cougoule, Etienne Meunier, Yoann Rombouts, Christel Vérolet, 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 Integrated Role of Nutrition and Digestive Physiology for Animal Health Haoyu Liu,Demin Cai,Johan Dicksved,Anoosh Rakhshandeh,2022-01-07 **Immunology & Serology in Laboratory Medicine - E-Book** Mary Louise Turgeon,2020-12-16 Building on a solid foundation of knowledge and skills this classic text from trusted author Mary Louise Turgeon clearly explains everything from basic immunologic mechanisms and serologic concepts to the theory behind procedures performed in the lab This go to resource prepares you for everything from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin Packed with learning objectives review questions step by step procedures and case studies this text is the key to your success in today s modern laboratory environment Procedural protocols help you transition from immunology theory to practical aspects of the clinical lab Case studies allow you to apply your knowledge to real world situations and strengthen your critical thinking skills Updated illustrations photographs and summary tables visually clarify key concepts and information Full color presentation clearly showcases diagrams and micrographs giving you a sense of what you will encounter in the lab Learning objectives and key terms at the beginning of each chapter provide measurable outcomes and a framework for organizing your study efforts Review questions at the end of each chapter provide you with review and self assessment opportunities NEW Highlights of Immunology chapter presents a clear accessible and easy to understand introduction to immunology that will help you grasp the complex concepts you need to understand to practice in the clinical lab NEW Stronger focus on molecular laboratory techniques NEW Ten chapters include COVID 19 related topics including Primer on Vaccines chapter covering newer vaccine production methods focusing on DNA and RNA nucleic acids and viral vectors and covering eight different platforms in use for vaccine research and development against SARS CoV 2 virus NEW All chapters include significant updates based on reviewer feedback NEW Key Concepts interwoven throughout each chapter highlight important facts for more focused learning **Editors' Showcase 2022: Insights in Molecular and Cellular Reproduction** Rafael A. Fissore,Shao-Chen Sun,2023-12-01

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