

## Manual for Leica SP2 Confocal Microscope

Enter you name, the date, the time, and the account number in the user log book.

### Things to check before start-up.

- Make sure that your sample slides are clean and sealed. Use Windex and cotton balls or Kimwipes to clean coverslips. Fixed samples need to be sealed with nail polish.
- Check the objectives. The 10x and 20x objectives are DRY objectives, and should NEVER have oil on them! There are 40x and 63x OIL immersion objectives, and a 63x WATER immersion objective also on this microscope. If oil immersion objectives have oil on them, wipe the lens gently only with lens paper. With the **microscope controller** ① ON, you see the information of the objective in position on the **reading panel** ① at the front of the microscope. The order of the objective lenses in the lens turret is: 10X, 20X, 40X Oil, 63X Oil, and 63X Water.
- The 63X objective has aperture collar adjustment rings that control the size of aperture opening. It should be wide open for most imaging condition. If your sample looks dim or the whole view field is not illuminated evenly when you look through the eyepieces, turn the collar to open the aperture.
- The field diaphragm and aperture diaphragm in the excitation path of the mercury lamp are controlled by round, black dials on the left side toward the back of the microscope, and control the fluorescence illumination from the mercury lamp. For all imaging with the mercury light source, these should be set wide open by turning all the way counter-clockwise.



### Setting up for bright-field and fluorescence viewing.

#### Basic Operation of Leica DM IRE2 Microscope.

Turn on the microscope controller ①.

Turn on the mercury arc lamp ②.

#### Bright-field viewing:

Place your sample slide with coverslip (preferably #1.5 thickness) facing down to the objective on the stage.

For bright-field viewing, turn on the microscope light by turning the wheel ⑦ toward you and turn the **VIS-SCAN switch** ⑤ to VIS position (Note: switch back to Scan position for confocal scanning, see below)

Start with low magnification objectives (10X or 20X) first to find and focus onto your specimen. The information of the selected objective and their z-



# Leica Sp2 Manual

**Marco Cascella**



## **Leica Sp2 Manual:**

Dictyostelium discoideum Protocols Ludwig Eichinger, 2008-02-02 Dictyostelium discoideum is a simple but fascinating eukaryotic microorganism whose natural habitat is deciduous forest soil and decaying leaves where the amoebae feed on bacteria and grow as independent single cells Exhaustion of the bacterial food source triggers a developmental program in which up to 100 000 cells aggregate by chemotaxis towards cAMP Morphogenesis and cell differentiation then culminate in the production of spores enabling the organism to survive unfavorable conditions Dictyostelium offers unique advantages for studying fundamental cellular processes with the aid of powerful molecular genetic biochemical and cell biological tools These processes include signal transduction chemotaxis cell motility cytokinesis phagocytosis and aspects of development such as cell sorting pattern formation and cell type differentiation Recently Dictyostelium was also described as a suitable host for pathogenic bacteria in which one can conveniently study the process of infection In addition Dictyostelium has many of the experimental conveniences of *Saccharomyces cerevisiae* and is probably the best experimentally manipulatable protozoan providing insight into this diverse group of organisms which includes some of the most dangerous human parasites The recent completion of the Dictyostelium genome sequencing project strengthens the position of Dictyostelium as a model organism The completed genome sequence and other valuable community resources constitute the source for basic biological and biomedical research and for genome wide analyses

**Introduction to Confocal Fluorescence Microscopy** Michiel Muller, 2006 This book provides a comprehensive account of the theory of image formation in a confocal fluorescence microscope as well as a practical guideline to the operation of the instrument its limitations and the interpretation of confocal microscopy data The appendices provide a quick reference to optical theory microscopy related formulas and definitions and Fourier theory

Atlas on the Human Testis Davor Jezek, 2012-10-18 Atlas on the Human Testis Normal Morphology and Pathology presents histological illustrative material from paraffin and semi thin sections of the human testis which are routinely used in the assessment of testicular morphology allowing an early detection of carcinoma in situ and more advanced pathological changes of the testicular parenchyma The early detection of cancer in situ is based on the careful morphological investigation of the biopsy and immunohistochemistry IHC Therefore this atlas contains detailed descriptions of IHC methods as well as modern molecular biological methods such as DNA microarrays and proteomics and advanced microscopy techniques related to the testicular biopsy Adequate evaluation of the testicular biopsy leads to high cure rates of testicular neoplasms which can be used as a basis to successfully treat infertility in men Atlas on the Human Testis Normal Morphology and Pathology is a valuable reference tool which will appeal to andrologists urologists pathologists clinical embryologists as well as reproductive biology scientists

**Digital Elevation Model Technologies and Applications** David Francis Maune, 2007 This DEM Users Manual is designed to help potential users of digital elevation data understand and articulate their requirements in a way that their expectations are satisfied if you have a dream that DEMs can help you do a

better job or you need to know more about DEM technologies and applications then this manual is for you      **CBM** ,2011  
**Medical Imaging 2006** ,2006      Popular Photography - ND ,1948-02      Journal of Physics ,2004      **Molecular Biology of the Cell** ,2006      **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),National Academy of Sciences (U.S.),2006      *Popular Photography - ND* ,1947-11  
The Journal of Cell Biology ,2008 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972      *The Plant Cell* ,2003      **Popular Photography - ND** ,1951-05      **Popular Photography** ,1951      **The Journal of Neuroscience** ,2009      Journal of Virology ,2005      Journal of Cell Science ,2003      Bulletin of the Chemical Society of Japan Nihon Kagakkai,2008      *Cancer Research* ,2007-05

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analyze the confrontations that drive the story's plot, noting what happens and who is involved, how Rikki's character is developed through each ... Unit 1 Part 2/Week 8 Title: Rikki-tikki-tavi Suggested Time Students complete an evidence chart as a pre-writing activity. Teachers should ... Answer: Tasks and answers available in the anthology on page 137. • After ...