Clear, continuous, confocal 4D imaging with improved signal-to-noise and optical sectioning makes the IX81 with DSU Spinning Disk Confocal the workhorse of your lab toolbox.

From 10x to 100x, the IX81 with DSU offers five interchangeable disks to match your objective’s numerical aperture and specimen type.

An incredibly flexible and fully automated setup, the IX81 with DSU makes live cell imaging easier than ever.
Molecular Mechanisms of Human Disease will be a five-day in-depth overview of current and cutting edge cell and molecular biology of human diseases. This course is designed for students, technologists, fellows, faculty, and scientists from academia and industry desiring a better understanding of the mechanisms underlying basic physiologic processes and how those pathways contribute to pathology and disease. This course will introduce researchers and educators to a broad sampling of new and exciting areas of biomedical research. Each day of the course will be capped off by a discussion of current developments and revolutions in technologies, including flow cytometry, tissue engineering, cancer genomics, and proteomics. 

**CME Accredited**

- **LEUKOCYTE ACTIVATION AND INFLAMMATION, MECHANISMS OF LEUKOCYTE-MEDIATED TISSUE INJURY**
  - Disease Application: Septic Shock, Immune-Mediated Inflammatory Diseases
  - Abul K. Abbas, MBBS, University of CA, San Francisco

- **CANCER GENES**
  - Disease Application: Colon Cancer, Breast Cancer, and Lung Cancer.
  - Nelson Fausto, MD, University of Washington

- **VIRAL ONCOGENESIS**
  - Disease Application: Cervical Cancer and HPV
  - Peter M. Howley, MD, Harvard Medical School

- **LEUKOCYTE RECRUITMENT**
  - Disease Application: Atherosclerosis, Graft Rejection
  - Richard N. Mitchell, MD, PhD, Harvard Medical School / Brigham & Women’s Hospital

- **TISSUE STEM CELLS**
  - Disease Application: Myocardial Infarction
  - Charles E. Murry, MD, PhD, University of Washington

- **SELECTED TECHNOLOGIES: FLOW CYTOMETRY**
  - Disease Application: AIDS
  - Louis J. Picker, MD, Oregon Health & Science University

- **FRONTIERS IN AGING RESEARCH**
  - Disease Application: Diabetes, Neurodegeneration, Cancer, Cardiovascular
  - David A. Sinclair, PhD, Harvard Medical School

- **HEMATOPOIETIC STEM CELLS**
  - Disease Application: Leukemia, Diseases of Ablative Vasculogenesis/Neovascularization
  - Heidi Stuhlmann, PhD, The Scripps Research Institute

- **ANGIOGENESIS, TUMOR-STROMAL INTERACTIONS**
  - Disease Application: Breast Cancer, Prostate Cancer
  - Valerie M. Weaver, PhD, University of Pennsylvania, Institute for Medicine and Engineering

- **PATHWAYS OF CELLULAR INJURY (ISCHEMIA, CALCIUM, REACTIVE OXYGEN SPECIES)**
  - Disease Application: Reperfusion Injury
  - Manjiri A. Venkatachalam, MD, University of Texas Health Science Center, San Antonio

- **SELECTED TECHNOLOGIES: TISSUE ENGINEERING**
  - Jennifer L. West, PhD, Department of Bioengineering, Rice University

- **SELECTED TECHNOLOGIES: MOLECULAR DIAGNOSIS OF CANCER: GENOMICS AND PROTEOMICS**
  - Matt van de Rijn, MD, PhD
  - Stanford University Medical Center

Register online at www.asip.org/sc06