Udine University along with the collaboration of the Centro di Riferimento Oncologico di Aviano, National Cancer Institute (CRO), with the scientific-technical support and sponsorship of Roche Diagnostics SpA, has launched the INTERNATIONAL SUMMER SCHOOL IN DIGITAL PATHOLOGY 1st edition.

The course will be held at CRO Campus, nearby CRO premises. The Summer School’s aims are:

- providing an introduction to principles, technologies and applications of Digital Pathology;
- The digital slide workflow.

Digital Pathology is the result of the intersection between pathology and medical information technology. Thus, other fields of research and diagnostics can take advantage from the principles of Digital Pathology, provided that the use a microscope: haematology, microbiology, biology in general, and all those biomedical fields where image analysis is performed (e.g. radiology).

The course will be held in English by Italian and international Speakers.

For information on application and registration contact: Università di Udine.

For information on tutorials and logistics at CRO Campus, contact: Centro Attività Formativa at CRO Aviano
Dr. Nicoletta Suter - mail: nsuter@cro.it - tel. 0434 659407
Dr. Nicola Di Montegnacco - mail: infoformazione@cro.it
tel. 0434 659830

Information

http://mitel.dimi.uniud.it/issdp/

School Board:
Vincenzo Della Mea, Carla Di Loreto, Antonino Carbone

Local Organizing Secretariat:
Valentina Solfrini, co-president; Paolo De Paoli, co-president; Vincenzo Canzonieri; Palmerino Rescigno; Nicoletta Suter; Monica Taiariol; Antonino Carbone, for the School Board
**Programme**

### 1a Session: Mon 12
- **08:00-09:15** School opening
  - P. De Paoli
- **09:15-09:45** Welcome
  - C.A. Beltrami, A. Carbone, C. Di Loreto
- **09:45-10:30** History of digital pathology
  - V. Della Mea
- **10:30-10:45** Coffee break
- **10:45-11:45** Introduction to digital pathology
  - M. Ilyas
- **11:45-12:45** Basics of digital imaging
  - V. Della Mea
- **12:45-14:00** Lunch break
- **14:00-15:00** Digital slide acquisition
  - M. Ilyas
- **15:00-16:00** Slide scanners: practical session
  - Roche
- **16:00-16:15** Coffee break
- **16:15-17:30** Slide scanners: practical session
  - Roche

### 2a Session: Tue 13
- **08:45-10:00** Basics of image processing and analysis
  - V. Della Mea
- **10:00-10:15** Coffee break
- **10:15-11:45** Image Analysis in Digital Pathology
  - G. Bueno
- **11:45-12:45** From 2D to 3D: principles of Stereology
  - A. Rasmusson
- **12:45-14:00** Lunch break
- **14:00-15:00** Case study: Ki67
  - A. Laurinavicius
- **15:00-16:00** Image quality: issues and techniques
  - A. Jimenez
- **16:00-16:15** Coffee break
- **16:15-17:30** Image analysis: practical session
  - D. Pilutti

### 3a Session: Wed 14
- **08:45-10:00** Case study: Quantitative pathology of intratumoral immune microenvironment
  - R. Dolcetti, P. Soyer
- **10:00-10:15** Coffee break
- **10:15-11:45** Case study: Focus on cytopathology
  - L. Pantanowitz
- **11:45-12:45** Case study: Focus on histopathology
  - M. Milione
- **12:45-14:00** Lunch break
- **14:00-15:00** Open source software for digital pathology
  - V. Della Mea
- **15:00-16:00** Image analysis: practical session
  - Roche
- **16:00-16:15** Coffee break
- **16:15-17:00** Image analysis: practical session
  - D. Pilutti
- **17:00-17:30** Image quality: practical session
  - A. Jimenez

### 4a Session: Thu 15
- **08:45-09:15** Case study: Quantitative pathology of intratumoral immune microenvironment
  - R. Dolcetti, P. Soyer
- **09:15-10:30** Case study: digital imaging in CISH
  - A. Gloghini
- **10:30-10:45** Coffee break
- **10:45-11:15** Case study: Focus on cytopathology
  - S. Sulfaro
- **11:45-12:45** Security and privacy of digital slides
  - V. Della Mea
- **12:45-13:00** Lunch break
- **13:00-14:00** Future perspectives and closing remarks
  - Round table with discussion
  - L. Pantanowitz, C.A. Beltrami, A. Carbone, C. Di Loreto, V. Della Mea