

# Non-Invasive Imaging in Dermatology

Residents and Specialists Course | 17-19 March 2025 | Siena, Italy

## Course description

The course has the goal to give participants a complete overview of the current techniques of non-invasive skin imaging, namely dermoscopy, reflectance confocal microscopy, conventional optical coherence tomography (cOCT), line-field confocal optical coherence tomography (LC-OCT), as well as high-frequency and ultra-high frequency ultrasound.

Dermoscopic and histopathological correlations will be also part of the course.

Practicality and interaction will be key characteristics of the course: differential diagnoses, clinical cases, questions, and a continuous stimulation of the audience will be provided from the speakers during their talks. Moreover, at the end of each session, there will be a “test-your-knowledge” survey with a quiz-based competition, during which participants will be able to provide their answers via their smartphones. Also, a live “hands-on-machine” experience with patients will be offered. The course will end with a session dedicated to the participants, during which they will be able to present their own clinical cases for discussion with the faculty.

## Learning Objectives

Confirm and acquire theoretical and practical knowledge of:

1. Dermoscopy
2. Reflectance confocal microscopy
3. OCT and LC-OCT
4. (Ultra) high frequency ultrasound

## Faculty

Chairs: Elisa Cinotti, Mariano Suppa  
Speakers: Giovanni Pellacani, Julia Welzel, Philippe Bahadoran  
Tutors: Josep Malvehy, Sandra Schuh, Jilliana Monnier  
Assistants: Linda Tognetti, Martina D'Onghia

## Programme

### Monday, 17 March 2025

|             |                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:15 | Welcome & introduction<br><i>Elisa Cinotti, Mariano Suppa</i>                                                                                        |
| 14:15-15:00 | Non-invasive imaging in dermatology: From colours to cells, from human to artificial intelligence<br><i>Josep Malvehy</i>                            |
| 15:00-15:30 | Dermoscopy of inflammatory and infectious conditions (Quiz with the same clinical cases before and after the lecture)<br><i>Linda Tognetti</i>       |
| 15:30-16:15 | Dermoscopy of benign and malignant melanocytic lesions (Quiz with the same clinical cases before and after the lecture)<br><i>Giovanni Pellacani</i> |
| 16:15-16:45 | Coffee break                                                                                                                                         |
| 16:45-17:45 | Dermoscopy of non-melanocytic lesions (Quiz with the same clinical cases before and after the lecture)<br><i>Mariano Suppa</i>                       |
| 17:45-18:15 | Dermoscopy and its histopathological correlates: A window on reality<br><i>Philippe Bahadoran</i>                                                    |

## Tuesday, 18 March 2025

- 08:30-09:30 Reflectance confocal microscopy: A new era for the diagnosis of melanocytic skin tumours (Quiz before and after the lecture)  
*Giovanni Pellacani*
- 09:30-10:00 Is lentigo maligna the best application for confocal microscopy and high-magnification dermoscopy? (Quiz before and after the lecture)  
*Elisa Cinotti*
- 10:00-10:45 Mucosal, infectious and inflammatory conditions: The role of in vivo confocal microscopy (Quiz before and after the lecture)  
*Elisa Cinotti*
- 10:45-11:15 Ex vivo confocal microscopy: From dermatology to pathology  
*Josep Malvehy*
- 11:15-11:45 **Coffee break**
- 11:45-12:15 Optical coherence tomography in dermatology: A love story  
*Julia Welzel*
- 12:15-12:45 Quiz on OCT  
*Sandra Schuh*
- 12:45-13:45 **Lunch break**
- 13:45-14:25 Line-field confocal optical coherence tomography: Introduction and basal cell carcinoma  
*Mariano Suppa*
- 14:25-14:45 Line-field confocal optical coherence tomography: Actinic keratosis, Bowen's disease, squamous cell carcinoma  
*Elisa Cinotti*
- 14:45-15:15 Quiz on LC-OCT and skin carcinomas  
*Elisa Cinotti*
- 15:15-15:45 **Coffee break**
- 15:45-17:15 Hands-on-machines: A practical experience with patients *All Faculty*
- 20.00-22.00 **Networking Dinner with faculty and participants**

## Wednesday, 19 March 2024

- 09:00-09:30 Line-field confocal optical coherence tomography of melanocytic lesions in comparison with RCM and OCT  
*Julia Welzel/Sandra Schuh*
- 09:30-09:50 Line-field confocal optical coherence tomography of other dermatological conditions  
*Linda Tognetti*
- 09:50-10:10 High-frequency ultrasound in skin cancers  
*Philippe Bahadoran*
- 10:10-10:30 High-frequency ultrasound in applications different from skin cancers  
*Linda Tognetti*
- 10:30-11:00 **Coffee break**
- 11:00-12:50 All together: Cases from the audience  
*All faculty and participants*
- 12.50-13:00 Closing remarks and farewell  
*Elisa Cinotti, Mariano Suppa*

*The programme might be subject to changes.*